BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV BORING LOCATION SWMU Group A DRILLING FIRM Microseeps DRILLING METHOD Geoprobe LOGGED BY G. Werkman	WATER LEVELS RELATIVE TO G.  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 1044.32  NORTHING -3228.93		BORING NO. SGA- G.S. ELEV. 632.31 CASING ELEV. N/ START DATE 11/18 FINISH DATE 11/18	/A /99	
SAMPLE (feet) HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
	ring 4 ft	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		φ	

2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

**BORING LOG** 

OJECT NAME Bayer Corp., New Marti	MATER LEVELS RELATIVE TO G.SURFACE	1
SWMU Group A	DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A	G.S. ELEV.630.67
DRILLING FIRM Microseeps		CASING ELEV. N/A
DRILLING METHOD_Geoprobe	EASTING_1084.34	START DATE 11/18/99
LOGGED BY G. Werkman	NORTHING -3224.90	FINISH DATE 11/18/99
SAMPLE RECOVERY (feet)  GI STAND STA	MATERIAL DESCRIPTION	REMARKS HE
3.6	rown-yellow, silty CLAY, little f sand, trace gravel, iff, moist  ottom of boring 4 ft	-5
NOTES:  1. Depths and Elevations in feet unless of 2. USCS Classification based on visual-materials. NS-Not surveyed 4. NE-Not encountered	therwise noted anual procedures	Sheet 1 of 1

# BORING LOG

PROJECT NAME Bayer Corp., Nev	v Martinsville, WV	WATER LEVELS RELATIVE TO G.S	SURFACE	BORING NO. SGA-TE	3056		
BORING LOCATION SWMU Group	Α	DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>630.45</u>			
DRILLING FIRM Microseeps		WELL LEVEL N/A	<del></del>	CASING ELEV. N/A			
DRILLING METHOD Geoprobe		400.00		START DATE 11/18/9	9		
LOGGED BY G. Werkman		EASTING 1138.82		FINISH DATE 11/18/99			
EGGGES ST		NORTHING -3213.94	<u></u>				
SAMPLE (feet) UI SAMPLE (feet) HW (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН		
5-	Brown-yellow, silty stiff, moist  Bottom of boring 4	ft			-5		
NOTES: 1. Depths and Elevations in feet u	inless otherwise noted						
2. USCS Classification based on v 3. NS-Not surveyed 4. NE-Not encountered	visual-manual procedures		S	Sheet 1 of 1			

OJECT NAME Bayer Corp., New Martinsville, WV  ORING LOCATION SWMU Group A  DRILLING FIRM Microseeps  DRILLING METHOD Geoprobe  LOGGED BY G. Werkman				WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A EASTING 1152.96 NORTHING -3184.31		BORING NO. SGA-T G.S. ELEV. 630.56 CASING ELEV. N/A START DATE 11/18/ FINISH DATE 11/18/	99
DEPTH	ANALYTICAL (test) ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
5-	1.7		Brown, silty CLAY,	4 ft			-5
2. US 3. NS	: oths and Elevations in f CS Classification based -Not surveyed -Not encountered	eet unle I on visu	ss otherwise noted al-manual procedure	·s	ع	Sheet 1 of 1	

BORING LOG

BORING LOO DRILLING F DRILLING M	PROJECT NAME Bayer Corp., New Martinsville, WV BORING LOCATION SWMU Group A DRILLING FIRM Microseeps DRILLING METHOD Geoprobe DOGGED BY G. Werkman			WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 1155.80  NORTHING -3144.32		BORING NO. SGA- G.S. ELEV.630.16 CASING ELEV. N/ START DATE 11/18, FINISH DATE 11/18	A /99	
DEPTH SAMPLE RECOVERY	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
5-			Brown, sandy SIL	4 ft			5	
2. USCS 3. NS-N	s and Elevations in f Classification based ot surveyed ot encountered	eet unle I on visu	ess otherwise noted al-manual procedur	es	S	Sheet 1 of 1	<u>                                     </u>	

**BORING LOG** 

ROJECT NAME Bayer Corp., New M		LEVELS RELATIVE TO G.SURF	ACE E	E BORING NO. SGA-TB051			
BORING LOCATION SWMU Group A	DURING	DRILLING (ft-bgs) N/A	1	S.S. ELEV. <u>630.95</u>			
DRILLING FIRM Microseeps	WELL LE	VEL_N/A	—  c	ASING ELEV. N/A			
DRILLING METHOD Geoprobe		1150 55	<u>       </u> s	START DATE 11/18/9	9		
LOGGED BY G. Werkman	EASTIN	NG_1159.55 ING3022.31	- 1	INISH DATE 11/18/9			
<del>                                     </del>	NORTH	INO	<u>- ſ</u>		_		
SAMPLE RECOVERY (feet) OI AIAMAS HNu (ppm)	MATERIA	L DESCRIPTION	SYMBOL	REMARKS	ОЕРТН		
2.7	Dk. brown, silty CLAY, trace moist  Bottom of boring 4 ft						
5-					ър.		
NOTES:  1. Depths and Elevations in feet unle 2. USCS Classification based on visu 3. NS-Not surveyed 4. NE-Not encountered			SI	heet 1 of 1	- <b>1</b> ∪		

		<del></del>		
PROJECT NAME Bayer Corp., New Martins	ville, WV WATER LEVELS RELATIVE TO G.SURF	FACE	BORING NO. SGA-TI	<u>305</u> 0
BORING LOCATION SWMU Group A	DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>633.20</u>	[
DRILLING FIRM Microseeps	WELL LEVEL N/A		CASING ELEV. N/A	
DRILLING METHOD Geoprobe			START DATE 11/18/9	
LOGGED BY G. Werkman	EASTING_1161.34	1		
LUGGED BY	NORTHING -2983.35	_	FINISH DATE 11/18/	99
SAMPLE (feet) OI BANDIATION TO THE	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
2.5	om of boring 4 ft	5/\$/\\$/\\$/\\$/\\$/\\$/\\$/\\\$\\\\$\\\\$\\\\$\\\		-5
10 NOTES:				-10
<ol> <li>Depths and Elevations in feet unless other</li> <li>USCS Classification based on visual-manural</li> <li>NS-Not surveyed</li> <li>NE-Not encountered</li> </ol>		Si	heet 1 of 1	

**BORING LOG** 

ROJECT NAME Bayer Corp., New Mar BORING LOCATION SWMU Group A DRILLING FIRM Microseeps		— G	S. ELEV. <u>636.08</u> ASING ELEV. <u>N/A</u>	
DRILLING METHOD Geoprobe LOGGED BY G. Werkman	EASTING_1167.08 NORTHING2942.18	- 1	TART DATE 11/18/9 INISH DATE 11/18/9	
SAMPLE SAMPLE THOU (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
3.3	Brown, clayey GRAVEL, little silt and sand, dense, moist  Bottom of boring 4 ft			- Б

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

4. NE-Not encountered

**BORING LOG** 

DRILLING METHOD Geoprobe LOGGED BY G. Werkman	WELL LEVEL N/A  EASTING 1169.29  NORTHING -2902.56		CASING ELEV. N/A START DATE 11/18/ FINISH DATE 11/18/	99_
SAMPLE SAMPLE (feet) (feet) HNU (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	ring 4 ft	\$\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		-5

# BORING LOG

ROJECT NAME Bayer Corp., New		VATER LEVELS RELATIVE TO G.SU					
ORING LOCATION SWMU Group A		OURING DRILLING (ft-bgs) N/A		G.S. ELEV. 641.95			
DRILLING FIRM Microseeps	W	ELL LEVEL N/A	1	CASING ELEV. N/A			
DRILLING METHOD Geoprobe		EASTING 1134.13		START DATE 11/18/9			
LOGGED BY G. Werkman		NORTHING2885.61	F	FINISH DATE 11/18/	99_		
	-1						
SAMPLE RECOVERY (feet) OI BAND (feet) HNu (ppm)	М.	ATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH		
2.7	Brown, clayey GRAVE	EL, little silt and sand, dense, moist	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		5		
					10		
NOTES:  1. Depths and Elevations in feet unl 2. USCS Classification based on vis 3. NS-Not surveyed 4. NE-Not encountered	ess otherwise noted al-manual procedures		·S	heet 1 of 1	-		

BORING LOG

PRO	JECT	Γ NAM	E Bayer Corp.	, New M	dartinsville, WV	WATER LEVELS RELATIVE TO G			B046
BOR:	ING	LOCA	TION SWMU Gr	oup A		DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>641.63</u>	—— [·
			RM Microseeps			WELL LEVEL N/A		CASING ELEV. N/	
DRIL	LIN	G ME	THOD Geoprob	е		EASTING_1094.38		START DATE 11/18/	99
LOG	LOGGED BY G. Werkman					NORTHING -2871.63		FINISH DATE 11/18	/99
						NOTITIZAD		T	$\Box$
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	·	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
5-		4.0		Ĩ	Brown-yellow, cladense, moist  Bottom of boring	yey GRAVEL, little silt and sand,	8/8/0 8/9/0 8/0 8/0 8/0 8/0 8/0 8/0 8/0 8/0 8/0 8		5
i	OTE:	oths a	and Elevations in f	eet unle	ess otherwise noted	-			I
	3. NS	S-Not	lassification based surveyed encountered	on visu	al-manual procedure	es	S	Sheet 1 of 1	İ

**BORING LOG** 

ORI DRIL DRIL	OJECT NAME Bayer Corp., New Martinsville, WV ORING LOCATION SWMU Group A DRILLING FIRM Microseeps DRILLING METHOD Geoprobe LOGGED BY G. Werkman					WATER LEVELS RELATIVE TO G DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 1055.73 NORTHING -2864.10		BORING NO. SGA-TI G.S. ELEV.641.12 CASING ELEV. N/A START DATE 11/18/5 FINISH DATE 11/18/	99_
ОЕРТН		RECOVERY (feet)		HNu (ppm)	····	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-	OTES	3.6		41	Brown-yellow, clay dense, moist  Bottom of boring 4	yey GRAVEL, little silt and sand,	8/8/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9		0
	1. De 2. US 3. NS	epths SCS C S-Not	and Elevations in f lassification based surveyed encountered	eet unle I on visu	ss otherwise noted al-manual procedure	s	ع	Sheet 1 of 1	

BOR! DRIL DRIL	ING .LIN .LIN	LOCA G FIA G ME	ME Bayer Corp. ATION SWMU Gr RM Microseeps THOD Geoprobe G. Werkman	oup A	dartinsville, WV	WATER LEVELS RELATIVE TO DURING DRILLING (ft-bgs) N/ WELL LEVEL N/A  EASTING 1019.02 NORTHING -2854.54	<u>A</u>	BORING NO. SGA-TBO- G.S. ELEV.641.13 CASING ELEV. N/A START DATE 11/18/99 FINISH DATE 11/18/99	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
-					Bottom of boring	12 ft	8/8/ 8/8/ 8/8/ 8/8/ 8/8/ 8/8/		
15-									<b>-</b> 45
20- Ni	OTES	S; .							20
	2. US 3. NS	SCS C S-Not	and Elevations in fo lassification based surveyed encountered	eet unle on visu	ss otherwise noted al-manual procedure	s	SI	neet 2 of 2	

BORII DRILL DRILL	NG ! _IN( _IN(	LOCA 3 FIF 3 ME	E Bayer Corp., TION SWMU Grown Microseeps THOD Geoprobe G. Werkman	oup A	lartinsville, WV	WATER LEVELS RELATIVE TO G.SI DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 1019.02 NORTHING -2854.54		BORING NO. SGA-T G.S. ELEV.641.13 CASING ELEV. N/A START DATE 11/18/3 FINISH DATE 11/18/	99_
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION		REMARKS	ОЕРТН
		20			moist	SAND, little clay and gravel, dense,			
						plastic, v. loose, moist			
5-		2.1			Red-brown, silty Ci moist	LAY, little sand, trace gravel, soft,			5
		-			Brown-yellow, silty moist	SAND, little clay and gravel, dense,	8/8/ 8/8/ 8/8/ 8/8/ 8/8/ 8/8/ 8/8/ 8/8		
0	OTES	2.9			·····		\$ / \$ / \$ / \$ / \$ / \$ /		10

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

BORI DRIL DRIL	NG LIN LIN	LOCA G FIF G ME	ME Bayer Corp. ATION SWMU Gr RM Microseeps THOD Geoprob G. Werkman	oup A	fartinsville, WV	WATER LEVELS RELATIVE TO G.: DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 989.52 NORTHING -2879.93		BORING NO. SGA-TB04 G.S. ELEV. 638.19 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
5-		2.4			Brown, silty GRAVE moist  Bottom of boring 4	EL, some clay, trace sand, dense,	500 00 00 00 00 00 00 00 00 00 00 00 00		-5
	2. ÚS 3. NS	epths SCS C S-Not	and Elevations in f lassification based surveyed encountered	eet unle on visu	ss otherwise noted al-manual procedures	3	5	Sheet 1 of 1	<del>10</del>

**BORING LOG** 

DRILLING FIRM Microseeps  DRILLING METHOD Geoprobe	POJECT NAME Bayer Corp., New I	MATER LEVELS RELATIVE TO G.S.	URFACE	BORING NO. SGA-TB042		
DRILLING FIRM MICROSSEPS  DRILLING FIRM MICROSSEPS  DRILLING METHOD Geoprobe  LOGGED BY G. Werkman  ANALYTICAL BY	BORING LOCATION SWMU Group A	DURING DRILLING (ft-bgs) N/A		t		
DRILLING METHOD_GEOProbe LOGGED BY_G. Merkman  EASTING_984.41 NORTHING_799.799 FINISH DATE_II/17/99 FINISH DATE_II/17/99  Brown, silty SAND, some clay, dense, moist  Brown to red-brown, clayey Sil.T. little gravel, trace f send, stirf, moist  Bottom of boring 4 ft	DRILLING FIRM Microseeps	WELL LEVEL N/A	1			
EASTING2907-99 FINISH DATE 11/17/98  H	DRILLING METHOD Geoprobe	FACTIVE 964 41		START DATE 11/17/	99_	
ANALYTICAL SAMPLE ID Frown, sitty SAND, some clay, dense, moist  Brown, sitfy sand, sliff, moist  Bottom of boring 4 ft  Brown to red-brown, clayey SiLT, little gravel, trace f  Brown to red-brown, clayey SiLT, little gravel, trace f  Bottom of boring 4 ft	LOGGED BY G. Werkman	NORTHING -2907.99	EASTING SOTITION I			
Brown, silty SAND, some clay, dense, moist  Brown to red-brown, clayey SILT, little gravel, trace f sand, stiff, moist  Bottom of boring 4 ft	<del></del>	T NOTH LAND			Τ	
Brown to red-brown, clayey SILT, little gravel, trace f sand, stiff, moist  Bottom of boring 4 ft	SAMPLE (feet) (Teet) (Teet) HNu (Ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
Bottom of boring 4 ft		Brown, silty SAND, some clay, dense, moist				
		Brown to red-brown, clayey SILT, little gravel, trace f sand, stiff, moist	10000000000000000000000000000000000000		5	
					10	

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

**BORING LOG** 

BORII DRILL DRILL	NG I INC	LOCA 5 FIF 5 ME	RE Bayer Corp.,  ATION SWMU Grown  RM Microseeps  THOD Geoprobe	oup A	lartinsville, WV	WATER LEVELS RELATIVE TO G.S DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 924.50	G	BORING NO. SGA-1804  G.S. ELEV.632.81  CASING ELEV. N/A  START DATE 11/17/99  FINISH DATE 11/17/99	
LUGG	FN	R.T	G. Werkman			NORTHING -2912.50	<u>_</u>	FINISH DATE 1711700	
рертн	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-		3.8			Brown, silty SAND	4 ft	8/9/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/		. — Б
1 4	2. US 3. NS	epths SCS C S-Not	and Elevations in f Classification based t surveyed encountered	eet unk	ess otherwise noted al-manual procedur	es	lS	heet 1 of 1	<u></u>

OJECT NAME Bayer Corp., New Martinsville, WV	<del></del>	- 1	BORING NO. SGA-1	
ವರ್RING LOCATION SWMU Group A	DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A	į	G.S. ELEV.633.58	
DRILLING FIRM Microseeps	WELL LEVEL		CASING ELEV. N/A	
DRILLING METHOD Geoprobe	EASTING 884.72		START DATE 11/17/99	
LOGGED BY G. Werkman	NORTHING -2910.28		FINISH DATE 11/17	/99_
SAMPLE RECOVERY (feet) ATAMWS ATAMAMS AT	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
Dk. brown, sil	STONE  ty SAND, trace gravel, dense, moist		<u>, , , , , , , , , , , , , , , , , , , </u>	
Bottom of bor	ing 4 ft			
5-				<del>ا</del>
				,
NOTES:  1. Depths and Elevations in feet unless otherwise not 2. USCS Classification based on visual-manual proced 3. NS-Not surveyed 4. NE-Not encountered			Sheet 1 of 1	-10

**BORING LOG** 

BORING DRILLIN DRILLIN	LOCA NG FIF NG ME	ME Bayer Corp. ATION SWMU Gr RM Microseeps THOD Geoprobe G. Werkman	oup A	fartinsville, WV	WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 845.64 NORTHING -2913.79		BORING NO. SGA-1803S G.S. ELEV.634.27 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99		
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
5-	4.0			Brown to brown-silt, dense, moist	yellow, clayey SAND, little gravel, trace			-5	
2. U 3. N	epths ISCS C IS-Not	and Elevations in fo lassification based surveyed encountered	eet unle on visu	ess otherwise noted al-manual procedur	es	ع	Sheet 1 of 1		

**BORING LOG** 

Crushed LIMESTONE  Brown-yellow, silty SAND, little clay and gravel, dense, moist  Dk. gray, silty SAND, trace clay, dense, moist  Bottom of boring 4 ft  NoTES:							1		204 7	D020
DRILLING FIRM_MICROSEPS  DRILLING FIRM_MICROSEPS  DRILLING METHOD_Geoprobe  LOGGED BY_G. Werkman  ANALYTICAL BY SAMPLE BY SUPERIOR SITE OF SAMPLE BY SAMPL						Martinsville, WV				<u> </u>
DRILLING FIRM MICROSEEPS  DRILLING METHOD GEOPROBE LOGGED BY G. Werkman  THIS DATE II/IT/99  ANALYTICUL SAMPLE BY START DATE II/IT/99  ANALYTICUL SAMPLE BY START DATE II/IT/99  Crushed LIMESTONE  Brown-yellow, silty SAND, little clay and gravel, dense, moist  Bottom of boring 4 ft  Div. gray, silty SAND, trace clay, dense, moist  Bottom of boring 4 ft							DURING DRILLING (ft-bgs) N/A			
BRILLING METHOD, Geoprobe  EASTING BOT.35 NORTHING -2911.39  START DATE 11/17/99 FINISH DATE							WELL LEVEL N/A		CASING ELEVN/A	
EASTING							207.35		START DATE 11/17/9	99_
ANALYTICAL SAMPLE TID   Crushed LIMESTONE  Brown-yellow, silty SAND, little clay and gravel, dense, moist  Bottom of boring 4 ft  Solution of boring 4 ft							EASTING_607.33	i		
Crushed LIMESTONE  Brown-yellow, silty SAND, little clay and gravel, dense, moist  Dk. gray, silty SAND, trace clay, dense, moist  Bottom of boring 4 ft					T	<del></del>	NURTHING 2011.00	<u> </u>		T
Brown-yellow, silty SAND, little clay and gravel, dense, moist  Dk. gray, silty SAND, trace clay, dense, moist  Bottom of boring 4 ft  NOTES:	DEPTĤ	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID			MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
Dk. gray, silty SAND, trace clay, dense, moist  Bottom of boring 4 ft  5						Crushed LIMESTON	IE .		0000	
NOTES:	5-		4.0			moist  Dk. gray, silty SAN	ND, trace clay, dense, moist	\$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		-5
NOTES:										
1. Depths and Elevations in feet unless otherwise noted	NC	)TES	6: 						,	10

USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

	WATER LEVELS RELATIVE TO G.	CLIDEACE	DODING NO. SGA-	TB037	
PROJECT NAME Bayer Corp., New Martinsville, W					
BORING LOCATION SWMU Group A	DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A		G.S. ELEV.635.98		
DRILLING FIRM Microseeps			CASING ELEV. N		
DRILLING METHOD Geoprobe	EASTING_768.39		START DATE 11/17/99		
LOGGED BY G. Werkman	NORTHING -2907.67		FINISH DATE 11/17	7/99	
SAMPLE (Ppm) (Ppm)	MATERIAL DESCRIPTION	MATERIAL DESCRIPTION			
Crushed LIM	ESTONE	000000	9999		
Brown, clayer moist  2.2	ey SILT, some sand, little gravel, dense,				
5-	· · · · · · · · · · · · · · · · · · ·	Ø;/9:/	<u>2</u> .	5	
10			1	10	
NOTES: 1. Depths and Elevations in feet unless otherwise noted: 2. USCS Classification based on visual-manual process. NS-Not surveyed 4. NE-Not encountered	oted edures	ع	Sheet 1 of 1	€.	

BORING LOCAL	ME Bayer Corp.,  ATION SWMU Gro  RM Microseeps  THOD Geoprobe	oup A	fartinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A		G.S. ELEV.636.87  CASING ELEV. N/A  START DATE 11/17/99	
LOGGED BY_				EASTING_728.94 NORTHING2905.22		FINISH DATE 11/17/99	
DEPTH SAMPLE RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
0 NOTES:			Brown, silty SAND	, little clay, trace gravel, dense, moist			ъ

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   NS-Not surveyed
- 4. NE-Not encountered

BORING LOG

			ME Bayer Corp.		lartinsville, WV	WATER LEVELS RELATIVE TO G.S			B036
			ATION SWMU Gr	oup A	<del></del>	DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A	I	G.S. ELEV. <u>637.16</u>	— i
			RM Microseeps			WELL CEVEL		CASING ELEV. N/A	1
			THOD Geoprobe	<del>-</del>		EASTING_729.94		START DATE 11/17/9	
LOG	ED	BY_	G. Werkman			NORTHING -2928.59		FINISH DATE 11/17/99	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
10 N	)	3.6			polycarbonate, yel	trace clay, polycarbonate pieces			5
1 (4)	l. De 2. US 3. NS	pths SCS C i-Not	and Elevations in fe lassification based surveyed encountered	eet unle on visua	ss otherwise noted al-manual procedures		S	heet 1 of 1	1 200

DRILL DRILL	IG LO ING F ING M	AME Bayer Corp. CATION SWMU Gr IRM Microseeps ETHOD Geoprob G. Werkman	oup A	fartinsville, WV	WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A EASTING 671.18 NORTHING -2925.35		BORING NO. 364-163 G.S. ELEV.638.83 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99		
ОЕРТН	SAMPLE (feet) HNu (ppm)				MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
5-	TES:				NE with silty Sand, trace clay  wn, silty SAND, little gravel, trace clay,		ן יו בין	-5	

<sup>1.</sup> Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

# BORING LOG

BORIN DRILL DRILL	OJECT NAME_Bayer Corp., New Martinsville, WV RING LOCATION_SWMU Group A ILLING FIRM_Microseeps ILLING METHOD_Geoprobe GGED BY_G. Werkman				dartinsville, WV	WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 690.92 NORTHING -2902.64	BORING NO. SGA-TB35 G.S. ELEV.639.20 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99		
ОЕРТН	SAMPLE	(feet)	ALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-		.2			<del>,</del>	NE with silty Sand, trace clay  In, silty SAND, little gravel, trace clay,			-5
2. 3.	Depth USCS NS-N		cation based yed		ss otherwise noted al-manual procedures	3	Si	heet 1 of 1	10

BORING LOG

	IEC	ΓΝΑΜ	E Bayer Corp.	New M	lartinsville, WV	WATER LEVELS RELATIVE TO G.S.	URFACE	BORING NO. SGA-T	B35A
DR:ئت	ING	LOCA	TION SWMU Gr	oup A		DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>638.51</u>	
			Microseeps			WELL LEVEL N/A		CASING ELEV. N/A	
			THOD Geoprobe	2				START DATE 11/17/9	99_
			G. Werkman			EASTING 697.32		FINISH DATE 11/17/	
		<u> </u>				NORTHING -2919.68	<del></del>	TINION DATE	
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
						E with silty Sand, dense, moist			-
		4.0			polycarbonate piec moist	E with silty Sand, trace clay, ces, polyurethane strands, dense,			
	//				Brown, gravelly SAI polycarbonate, der  Bottom of boring 4				
								<del>)</del>	
5-									-5
						·			-
			·						-
	 								_
						,			
0-						·			10
	OTE		and Flaveliens is f	aat uala	se atherwise nated				,

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

BORI DRIL DRIL	ROJECT NAME Bayer Corp., New Martinsville, WV DRING LOCATION SWMU Group A RILLING FIRM Microseeps RILLING METHOD Geoprobe DGGED BY G. Werkman					WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 702.03 NORTHING -2936.85	G	ORING NO. SGA-T S. ELEV.638.46 ASING ELEV. N/A TART DATE 11/17/9 INISH DATE 11/17/	99_
ОЕРТН	문 <sup>5</sup>			MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН		
Crushed LIMESTO moist  Red-brown to lt.					moist	NE with silty Sand, trace clay, dense,			
	V	4.0			Brown-yellow to p	pink, ASH, Polycarbonate Strands, Plant y sand, piece metal, v. loose, moist			
5-					Brown, silty SAND limestone, dense, Bottom of boring				- F
	OTES	pths	and Elevations in f	eet unle	ess otherwise noted				10-
	3. NS	3-Not	lassification based surveyed encountered	on visu	al-manual procedure	25	Si	heet 1 of 1	

# **BORING LOG**

ROJECT NAM	E Bayer Corp., Ne	w Martinsville, WV	WATER LEVELS RELATIVE TO G.S	URFACE	ORING NO. SGA-	TB34A	
BORING LOCA	TIONSWMU Group	Α	DURING DRILLING (ft-bgs) N/A	G	G.S. ELEV. <u>639.12</u>		
DRILLING FIR	M Microseeps		WELL LEVEL N/A	c	ASING ELEV. N/	<u>'A</u>	
	THOD Geoprobe				START DATE 11/17/99		
LOGGED BY			EASTING 673.40		INISH DATE 11/17		
LUGGED BT	<u> </u>		NORTHING2966.96	<u> </u>	INISH DATE	7	
SAMPLE RECOVERY (feet)	ANALYTICAL SAMPLE ID N		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
5-		Crushed LIMESTON	NE with silty Sand, trace clay, dense, wn, silty SAND, trace clay, gravel, 4 ft			5	
NOTES:						10	

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

## **BORING LOG**

BORIN DRILL DRILL	OJECT NAME Bayer Corp., New Martinsville, WV PRING LOCATION SWMU Group A SILLING FIRM Microseeps FILLING METHOD Geoprobe FIGGED BY G. Werkman				Aartinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 683.17  NORTHING -2970.99		BORING NO. SGA- G.S. ELEV.639.83 CASING ELEV. N/ START DATE 11/17 FINISH DATE 11/17	A /99
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-		4.0			moist  Crushed LIMESTO iron oxide, black p	INE with red-brown, silty Sand, trace polycarbonate, loose, moist  LT, little sand and gravel, stiff, moist  4 ft			-5
10-	TES						i.		10 %
1. 2 3	. US	oths CS C -Not	and Elevations in f lassification based surveyed encountered	eet unle I on visu	ess otherwise noted Ial-manual procedure	es	5	Sheet 1 of 1	, ) the

BORING LOG

OJECT NA	ME Bayer Corp.	, New M	lartinsville, WV	WATER LEVELS RELATIVE TO G.S	l l		B033
	ATION SWMU Gr			DURING DRILLING (ft-bgs) N/A	,	6.S. ELEV. <u>639.50</u>	
	IRM Microseeps			WELL LEVEL N/A	1	CASING ELEV. N/A	
	ETHOD Geoprob	е		EASTING_678.38		START DATE 11/17/99	
LOGGED BY.	G. Werkman			NORTHING -3009.50	F	INISH DATE 11/17/	/99
SAMPLE RECOVERY	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-			moist				5
2. USCS 3. NS-No	s and Elevations in f Classification based ot surveyed ot encountered		ess otherwise noted al-manual procedure	es	S	heet 1 of 1	

**BORING LOG** 

PROJECT NAME Bayer Corp., New BORING LOCATION SWMU Group of DRILLING FIRM Microseeps  DRILLING METHOD Geoprobe LOGGED BY G. Werkman	Martinsville, WV	WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A EASTING 674.21 NORTHING -3047.88		BORING NO. SGA- G.S. ELEV.639.15 CASING ELEV. N/ START DATE 11/17 FINISH DATE 11/17	A /99
SAMPLE SAMPLE RECOVERY (feet) OI BILLATION HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
4.0	moist	NE with silty Sand, trace clay, dense,  In, silty SAND, trace gravel and clay,  4 ft			-5
NOTES:  1. Depths and Elevations in feet u 2. USCS Classification based on v 3. NS-Not surveyed 4. NE-Not encountered	nless otherwise noted isual-manual procedure	s	S	Sheet 1 of 1	(5.)

### BORING LOG

ROJECT NAME Bayer Corp., New Martinsville, WARD BORING LOCATION SWMU Group A  DRILLING FIRM Microseeps  DRILLING METHOD Geoprobe  LOGGED BY G. Werkman	WATER LEVELS RELATIVE TO G.SI DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 672.58 NORTHING -3086.23	WELL LEVEL_N/A  EASTING_672.58		99
SAMPLE RECOVERY (feet) aldwas TYLITATION (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
Crushed LIME moist				
5-				-5
NOTES:  1. Depths and Elevations in feet unless otherwise not 2. USCS Classification based on visual-manual process. NS-Not surveyed 4. NE-Not encountered	oted edures	S	Sheet 1 of 1	40

BOR DRIL DRIL	ROJECT NAME Bayer Corp., New Martinsville, WV  ORING LOCATION SWMU Group A  RILLING FIRM Microseeps  RILLING METHOD Geoprobe  OGGED BY G. Werkman					WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 672.91  NORTHING -3125.26		BORING NO. SGA- G.S. ELEV.638.39 CASING ELEV. N/ START DATE 11/17 FINISH DATE 11/17	A /99	
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
Crushed LIMESTO moist					moist  Dk. brown to brow	NE with silty Sand, trace clay, dense,				
5-					Bottom of boring 4	1 ft	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		5	
10-									10	, c
	2. U 3. N	epths SCS C S-Not	and Elevations in f lassification based surveyed encountered	eet unk i on visu	ess otherwise noted Ial-mänual procedures	s	٠.	Sheet 1 of 1	<del>-</del>	

**BORING LOG** 

" ``∄∩.1	JECT NAME Bayer Corp., New Martinsville, W					WATER LEVELS RELATIVE TO G.S	URFACEB	ORING NO. SGA-T	B029
-AURI	NG	LOCA	TION SWMU Gr	oup A		DURING DRILLING (ft-bgs) N/A	G	.S. ELEV. <u>637.92</u>	
DRII.	LIN	G FIF	Microseeps			WELL LEVEL N/A	c	ASING ELEV. N/A	
			THOD Geoprobe	e		676 41	s	TART DATE 11/17/9	99
			G. Werkman			EASTING 676.41 START DATE  NORTHING -3164.05 FINISH DATE			
						NONTHING	$\overline{}$	· · · · · · · · · · · · · · · · · · ·	Ι Τ
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.8			moist	NE with silty Sand, trace clay, dense,  vellow, clayey SILT, little sand and f  ist			
		3.0				GAND, trace gravel, dense, moist			
T -					Bottom of boring	4 ft			
						•			
5-									5
	1								
1									<u></u>
-0( N ∕	OTE	S:							
	2. U 3. N	SCS C S-Not	and Elevations in f lassification based surveyed encountered	eet unle I on visu	ess otherwise noted al-manual procedure	es	S	heet 1 of 1	

## BORING LOG

BORÍN DRILLI DRILL	IG LOC ING FI ING ME	ME_Bayer Corp. ATION_SWMU Gr RM_Microseeps THOD_Geoprob G. Werkman	oup A	Martinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 682.32  NORTHING -3203.29	G	ORING NO. SGA- i.S. ELEV.637.16 ASING ELEV. N/ TART DATE 11/17, INISH DATE 11/17	A /99
DEPTH	SAMPLE RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	3.5				NE with silty Sand, trace clay, dense			
	3.5			Black ASH, v. loo Dk. brown, silty S  Bottom of boring	SAND, trace f gravel, dense, moist			
5-							·	-5
								_
1. 2. 3.	USCS (	and Elevations in f Classification based t surveyed t encountered	eet unk	ess otherwise noted al-manual procedure	es	Si	heet 1 of 1	0;   (

**BORING LOG** 

RO.	IFC1	T NAN	E Bayer Corp.	, New M	lartinsville, WV	_ WATER LEVELS RELATIVE TO		BORING NO. SGA-1	B027
r≰ORI	ING	LOCA	TION SWMU Gr	oup A		DURING DRILLING (ft-bgs) N/	<u> </u>	G.S. ELEV. <u>636.59</u>	
			RM Microseeps			WELL LEVEL N/A	<del></del>	CASING ELEV. N/A	
DRIL	LIN.	G ME	THOD Geoprob	e		EASTING 690.92		START DATE 11/17/99	
LOG	GED	BY_	G. Werkman			- NORTHING -3240.74	FINISH DATE 11/17/	NISH DATE 11/17/99	
_					1.			· .	
TT.	PLE	RECOVERY (feet)	ANALYTICAL	(mdd)		MATERIAL RECORDETION	BOL	REMARKS	=
DEPTH	SAM	cov eet)	SAMPLE ID	N N		MATERIAL DESCRIPTION	SYMBOL		ОЕРТН
		# <del>5</del>					مينمند		<del> </del>
ľ	۱,				Crushed LIMEST(	ONE with silty Sand, dense	2000		
	1						<u> </u>		
	$\  \ $						12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		}
	W					•	27727 8 - 6 - 7 - 6 - 6 - 7		
	V						200 p. 200 p		
		3.5					0000		<u> </u>
					Brown, silty SANI	D, trace f gravel, dense, moist			
							ن در		1
	1/ \								
	$\  \cdot \ $								
					Bottom of boring	4 ft		-1	
		1							
									1
5-									-5
ľ									
				:					
ŀ	]		·						}
ļ			i						
l									
	-								}
			*				1		
	1								<b>†</b>
				,					
	1						1		Ť
0-	L IOTE	 S:	<u>.</u>	<u></u>		· · · · · · · · · · · · · · · · · · ·	·	· · · · · · · · · · · · · · · · · · ·	10
T	1. De	epths	and Elevations in 1	eet unle	ess otherwise noted al-manual procedur	res			
ı	3. N	S-Not	surveyed encountered	. UII 413U	a. marigar procedur		S	Sheet 1 of 1	

BORIN DRILLI DRILLI	G LOC ING FI ING ME	ME Bayer Corp.  ATION SWMU Gr  RM  THOD Hand Au  G. Werkman	oup A	Aartinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 670.47  NORTHING -3282.94		BORING NO. SGA-TI G.S. ELEV.634.68 CASING ELEV. N/A START DATE 11/18/3 FINISH DATE 11/18/	99_
DEPTH	SAMPLE Greet) HNu (ppm)				MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-				Dk. brown, organic Brown-yellow, silty moist  Bottom of boring 3.	CLAY, trace f sand, med. plasticity,			-5
NOT 1. 1 2. 3.	Depths USCS ( NS-Not	and Elevations in f lassification based surveyed encountered	eet unle on visu	ess otherwise noted al-manual procedures		S	Sheet 1 of 1	**************************************

HOY	ECT	Γ NAM	ME Bayer Corp.	, New M	lartinsville, WV	WATER LEVELS RELATIVE TO G.			B26A
r≾ÓRI	ING	LOCA	TION SWMU Gr	oup A		DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>635.07</u>	
			RM Microseeps			WELL LEVEL N/A		CASING ELEV. N/A	
DRIL	LIN	G ME	THOD Geoprob	e		EASTING 687.30		START DATE 11/17/99	
LOGG	ED	BY_	G. Werkman			NORTHING -3279.69 FINISH DATE 11			<u> </u>
						· · · · · · · · · · · · · · · · · · ·			Τ΄.
DËPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH.		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					V. dk. brown, silty	SAND sod, organic matter			
_	$\mathbb{N}$				CONCRETE with rei	<del></del>		1122.4	
	$\bigvee$				Brown, silty SAND,	dense, moist			
-	Å	3.0							
	$\  \ $								
	$\  \cdot \ $				Bottom of boring 4	41			
<i>,                                    </i>	<u> </u>				Bottom of borning 4				
						•			-5
5-									
	i.								
-									
									\   
		!							
_ / N( 	2. US	epths SCS C	and Elevations in flassification based surveyed	eet unle I on visu	ss otherwise noted al-manual procedures		_	Sheet 1 of 1	10

3. NS-Not surveyed

4. NE-Not encountered

**BORING LOG** 

BOR: DRIL DRIL	ROJECT NAME Bayer Corp., New Martinsville, WV ORING LOCATION SWMU Group A RILLING FIRM Microseeps RILLING METHOD Geoprobe OGGED BY G. Werkman					WELL LEVEL N/A C		BORING NO. SGA-TB02 G.S. ELEV.635.93 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99		
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
					Crushed LIMESTON Brown, silty SAND, moist	little clay and crushed stone, dense,		0,0,00		
		3.8			Crushed LIMESTON strands, v. loose, s Brown, silty SAND, Bottom of boring 4	dense, moist	0000			
5-									-5	
-										
1		pths a			ss otherwise noted				10-Q	

**BORING LOG** 

	OJECT NAME Bayer Corp., New Martinsville, WV					WATER LEVELS RELATIVE TO G.				
ر Ri∂D:	NG	LOCA	TION SWMU Gr	oup A		DURING DRILLING (ft-bgs) N/A	i	G.S. ELEV. <u>Not meas.</u>		
DRIL						WELL LEVEL N/A		CASING ELEV. N/A		
			THOD Hand Aug	ger		682 00 est		START DATE 11/18/99		
LOGO	3ED	BY_	G. Werkman			EASTING_682.00 est.  NORTHING3322.00 est.		FINISH DATE 11/18/	99_	
	-				-	NONTHANO				
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
			·		Dk. brown, organ	ic matter, humus				
					Dk. brown, silty	SAND, little clay, dense, moist				
					Brown-yellow, sil					
5-									15	
	2. U 3. N	epths SCS ( S-No	and Elevations in to Classification based t surveyed t encountered	feet unle d on visu	ess otherwise noted al-manual procedur	es		Sheet 1 of 1		

## **BORING LOG**

PROJECT NAME Bayer Corp., Ne BORING LOCATION SWMU Group DRILLING FIRM DRILLING METHOD Hand Auger LOGGED BY G. Werkman		WATER LEVELS RELATIVE TO COMMENT OF THE PROPERTY OF THE PROPER	BORING NO. SGA-T G.S. ELEV.Not meas CASING ELEV. N/A START DATE 11/18/ FINISH DATE 11/18/	99	
SAMPLE RECOVERY (feet) OII BIANS HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-	Brown-yellow, s		SAND, little clay, dense, moist  ty f SAND, trace polyurethane		- Fo
NOTES:  1. Depths and Elevations in feet to 2. USCS Classification based on to 3. NS-Not surveyed 4. NE-Not encountered	inless otherwise noted	es	S	Sheet 1 of 1	10.4

BOR: DRIL DRIL	OJECT NAME Bayer Corp., New Martinsville, WV  ORING LOCATION SWMU Group A  RILLING FIRM Microseeps  RILLING METHOD Geoprobe  OGGED BY G. Werkman  ANALYTICAL SAMPLE  SAMPLE					WELL LEVEL N/A		G.S. ELEV.635.32  CASING ELEV. N/A  START DATE 11/17/99  FINISH DATE 11/17/99		
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
5-		3.0				yellow, silty SAND, little clay and ist			5	

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   NS-Not surveyed
   NE-Not encountered

**BORING LOG** 

BOR: DRIL DRIL	ING LIN LIN	LOCA G FII G ME	ME Bayer Corp. ATION SWMU Gr RM THOD Hand Au G. Werkman	oup A	Martinsville, WV	WATER LEVELS RELATIVE TO DURING DRILLING (ft-bgs)_N/ WELL LEVEL_N/A  EASTING_670.19 NORTHING3372.25	BORING NO. SGA-TB24C G.S. ELEV.629.05 CASING ELEV. N/A START DATE 11/18/99 FINISH DATE 11/18/99		
DEPTH	SAMPLE (Feet) HNu (PDm)					MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
-					Dk. brown, organic				
5-									5
1	e. US	pths a	lassification based		ss otherwise noted al-manual procedures				-10 (; ·
4	. NE	-Not	surveyed encountered				S	heet 1 of 1	

BORING I	LOCAT	Bayer Corp., ION SWMU Gro	New M	artinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A	k	G.S. ELEV.629.28  CASING ELEV. N/A		
DRILLING	3 METH	HOD Hand Aug . Werkman	jer		ST FASTING 675.68		START DATE 11/18/9	TART DATE 11/18/99 INISH DATE 11/18/99	
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
7S 5	REC: (fee		NH	Dk. brown, organic	CLAY, med. plasticity, soft, moist			30	
					<del></del>			10	

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

BOR: DRIL DRIL	PROJECT NAME Bayer Corp., New Martinsville, WV BORING LOCATION SWMU Group A  DRILLING FIRM Microseeps  DRILLING METHOD Geoprobe  LOGGED BY G. Werkman  ANALYTICAL GO					WATER LEVELS RELATIVE TO G.SURFACE DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 689.82 NORTHING -3368.33		G.S. ELEV.633.04  CASING ELEV. N/A  START DATE 11/17/99  FINISH DATE 11/17/99	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	OEPTH
10-	DTES	2.8			Brown, silty SAND				-5

<sup>1.</sup> Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

DRIL	ROJECT NAME Bayer Corp., New Martinsville, WV  ORING LOCATION SWMU Group A  RILLING FIRM Microseeps  RILLING METHOD Geoprobe					WATER LEVELS RELATIVE TO G. DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A		G.S. ELEV. <u>635.69</u> CASING ELEV. <u>N/A</u>		
LOG	LIN SED	G ME BY_	G. Werkman	e		I EASTING 121.34		START DATE <u>11/17/</u> FINISH DATE <u>11/17/</u>		
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
5-		3.3				yey GRAVEL, little sand, trace silt			dh .	
	2. US 3. NS	pths a SCS C S-Not			ss otherwise noted al-manual procedures			Sheet 1 of 1	10	

**BORING LOG** 

PROJECT NAME_Bayer Corp., New Martinsville, WV BORING LOCATION_SWMU Group A  DRILLING FIRM  DRILLING METHOD_Hand Auger LOGGED BY_G. Werkman  ###################################			Martinsville, WV	WELL LEVEL N/A  FASTING 676.92		BORING NO. SGA-1823 G.S. ELEV.627.76 CASING ELEV. N/A START DATE 11/18/99 FINISH DATE 11/18/99		
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5					CLAY, high plasticity, soft, moist			5
10 NOTES	5:		oot upla					10

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

RO	OJECT NAME Bayer Corp., New Martinsville, WV				Martinsville, WV	WATER LEVELS RELATIVE TO G.SURFAC				
			ATION SWMU Gr			DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>632.60</u>		
			RM Microseeps			WELL LEVEL_N/A		CASING ELEV. N/A	١	
			THOD Geoprob	е				START DATE 11/17/	99	
			G. Werkman		<del> </del>	EASTING 691.32 NORTHING -3403.23		FINISH DATE 11/17/		
$\vdash$		ľ				NORTHING		T	Τ-	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
					Brown, silty SAND, loose, moist	organic matter, crushed limestone,	76 06 76 06 76 06 76 06	0 0 0 0	-	
	$\left  \right $				Black to It. gray-	-white, f-m SAND, v. loose, wet				
		1.7			Crushed LIMESTO	NE, trace white plant residue	\$0,00,00,00,00,00,00,00,00,00,00,00,00,0			
					Bottom of boring	4 ft	\$ 60,000 \$ 60,000 \$ 60,000 \$ 60,000 \$ 60,000			
5-									-5	
									-	
	•								-	
	ļ -								-	
									_	
0-									10	

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

**BORING LOG** 

BORI DRIL DRIL	NG LIN LIN	LOCA G FII G ME	ME Bayer Corp. ATION SWMU Gr RM Microseeps THOD Geoprobe G. Werkman	oup A	fartinsville, WV	WELL LEVEL N/A  EASTING 715.45		BORING NO. SGA-TB23 G.S. ELEV.634.14 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5	TES TEST	2.2			strands Brown to v. dark g	, some gravel, trace red polyurethane gray, clayey GRAVEL, little sand, d red polyurethane strands, loose,			5
1. .2 3	. De . US . NS	pths a CS Cl -Not			ss otherwise noted al-manual procedures		5	heet 1 of 1	

**BORING LOG** 

ROJECT NAME Bayer Corp. SORING LOCATION SWMU Gr DRILLING FIRM Microseeps DRILLING METHOD Geoprob LOGGED BY G. Werkman	oup A	Martinsville, WV	WELL LEVEL N/A FASTING 732.89		BORING NO. SGA-18023 G.S. ELEV.636.41 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99	
DEPTH SAMPLE RECOVERY (feet) The standard of t	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
4.0 NOTES:		Crushed LIMESTO	NE NE, trace white plant residue v SAND, little silt, gravel, trace use, moist		000000000000000000000000000000000000000	- 5

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed

4. NE-Not encountered

## **BORING LOG**

BORIN DRILL DRILL	IG LOC ING FI ING ME	ME Bayer Corp ATION SWMU G RM Hand Au G. Werkman	roup A	Martinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 675.56  NORTHING -3443.90	DRING NO. SGA-TB224 S. ELEV.627.39 ASING ELEV. N/A TART DATE 11/18/99 INISH DATE 11/18/99		
ОЕРТН	SAMPLE RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
Dk. brown, organ			Dk. brown, organic	c matter, humus CLAY, high plasticity, soft, moist				
				Brown-yellow, silty  Bottom of boring 4	CLAY, med. plasticity, soft, moist			
5-								-5
-								
1. 2. 3.	USCS NS-No	and Elevations in Classification base t surveyed t encountered	feet unle d on visi	ess otherwise noted ual-manual procedure	s .	lS	heetlofl	10

**BORING LOG** 

OJECT NAME_	Bayer Corp., Ne	w Martinsville, WV	WATER LEVELS RELATIVE TO G.SUF			3022
TEORING LOCATIO			DURING DRILLING (ft-bgs) N/A			
DRILLING FIRM_	Microseeps		WELL LEVEL N/A	i	CASING ELEV. N/A	
DRILLING METHO	D Geoprobe	·	EASTING 742.96		START DATE 11/17/9	
LOGGED BY G.	Werkman		NORTHING3435.02		FINISH DATE 11/17/9	99_
SAMPLE RECOVERY (feet)	NALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
		Crushed LIMESTON	IE .			
		Brown-yellow, ASH loose, moist	, trace polycarbonate pieces, v.	\$ 5 5 5 \$ 5 5 6		
		Black, ASH, some p	polycarbonate strands, trace gravel,	< < <		
2.2				\$ \$ \$ \$ \$ \$ \$ \$ \$		
1						
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
		Bottom of boring 4	l ft	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
				و ﴿ و ﴿	<u> </u>	
						_
5-						<del>-</del> 5
						-
						-
						-
NOTES:		unlass otherwise noted		<u> </u>		-10

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

# **BORING LOG**

PRO.	IEC.	ΤΝΔΝ	<sub>dE</sub> Bayer Corp	., New I	Martinsville, WV	WATER LEVELS RELATIVE TO G.	SURFACE	BORING NO. SGA-	1B21D	r-*
	ING	י ואטי	ATION SWMU G	roup A		DURING DRILLING (ft-bgs) N/A		S.S. ELEV.626.88		امر
			RM	·		WELL LEVEL_N/A	lo	CASING ELEV. N/	Α	
			THOD Hand Au	uger			1	START DATE 11/18/		
			G. Werkman			EASTING 671.88		INISH DATE 11/18		l
נטטו	טבט	-10	0.770.77		T	NORTHING -3491.35		INISH DATE 117.13	<del>, , , , , , , , , , , , , , , , , , , </del>	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
					Dk. brown, organ	nic matter, humus				
					V. dk. gray, silt	y CLAY, high plasticity, soft, moist				
	Brown-yellow				Brown-yellow, sil	ty CLAY, med. plasticity, soft, moist			-	
	Bottom of bori				Bottom of boring	4 ft		1		
5-									-5	
	<u> </u>  -								-	
										i
<u> </u>										
10-									10 1	7
N	1. De 2. U	epths SCS C	Classification base	feet unle d on visi	ess otherwise noted ual-manual procedur	es			-F	_
	ა. N 4. NI	5-Not E-Not	surveyed encountered				S	theet 1 of 1	l	

BORING LOG

". "'\_':n.i	FC	T NAM	E Bayer Corp.	, New M	Martinsville, WV	WATER LEVELS RELATIVE TO G.S	URFACE	BORING NO. SGA-T	B21C
			TION SWMU Gr					G.S. ELEV.629.07	
			RM_Microseeps			WELL LEVEL N/A		CASING ELEV. N/A	<u> </u>
				<del></del> -	····			START DATE 11/17/	
			THOD Geoprob			EASTING_686.12			
LOGO	ED	BY_	G. Werkman			NORTHING3492.32		FINISH DATE 11/17/	99
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, sandy CLA	Y, trace organic matter, gravel, silt			
_					Brown, sandy CLA	Y, trace gravel, silt, stiff, moist			
	2.8 Crushed LIM					NE			
	$\left  \cdot \right $				loose, moist	I PLANT RESIDUE and copper piece,  LT, trace organic matter, loose, moist  4 ft	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		
5-									-5
-									
)- N	DTE:	 S:							10

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

BORING LOCA DRILLING FIR	E Bayer Corp. TION SWMU Gr M Microseeps THOD Geoprob G. Werkman	oup A	fartinsville, WV	WELL LEVEL N/A  EASTING 723.24		E BORING NO. SGA-1 G.S. ELEV.631.87 CASING ELEV. N// START DATE 11/17/ FINISH DATE 11/17	99
DEPTH SAMPLE RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	i i i	REMARKS	ОЕРТН
10			Brown, silty SAND	, v. loose, moist			5
1. Depths 2. USCS C 3. NS-Not	lassification base	feet unk d on visi	ess otherwise noted plai-manual procedure	es		Sheet 1 of 1	

SAMPLE ID HNu (ppm) WATERIAL DESCRIPTION  SYMBOL	BORING NO. SGA-TB21A G.S. ELEV.633.82 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99		
	REMARKS	DEPTH	
Crushed LIMESTONE  Brown to black, sandy CLAY, little polycarbonate pieces, soft, moist  Bottom of boring 4 ft		-5 -5	

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   NS-Not surveyed
   NE-Not encountered

BORI DRIL DRIL	ROJECT NAME Bayer Corp., New Martinsville, WV  DRING LOCATION SWMU Group A  RILLING FIRM Microseeps  RILLING METHOD Geoprobe  DGGED BY G. Werkman  ANALYTICAL SAMPLE					WELL LEVEL N/A FASTING 752.05		BORING NO. SGA- G.S. ELEV.636.88 CASING ELEV. N/ START DATE 11/17/ FINISH DATE 11/17	A /99
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	·	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-		2.8			IRON OXIDE, trace polyurethane, plass	e black polycarbonate, strings of tic, v. loose, moist			-5
1 2	2. US 3. NS	pths a SCS Cl S-Not	and Elevations in fo assification based surveyed encountered	eet unle on visu	ss otherwise noted al-manual procedures		S	Sheet 1 of 1	

**BORING LOG** 

OJECT NAME Bayer Con SHAD SWAD DRILLING FIRM Hand A LOGGED BY G. Werkman	Group A	Aartinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 670.14	G.S. ELEV. 627.97  CASING ELEV. N/A  START DATE 11/18/99			
LOGGED DI	·		NORTHING3516.69 FINISH DATE_11/18				
SAMPLE RECOVERY (feet) GI BACK	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
		moist	Y, trace sand and gravel, low plasticity, Ity clay, low plasticity, moist				
NOTES:						-5	
1. Depths and Elevations in 2. USCS Classification bas 3. NS-Not surveyed 4. NE-Not encountered			<b>9</b> \$	S	heet 1 of 1		

BORING LOG

BOR DRIL DRIL	ROJECT NAME Bayer Corp., New Martinsville, WV  ORING LOCATION SWMU Group A  RILLING FIRM Microseeps  RILLING METHOD Geoprobe  OGGED BY G. Werkman  ANALYTICAL GEOGED SAMPLE					WATER LEVELS RELATIVE TO G.S. DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 722.05 NORTHING -3514.16	BORING NO. SGA-TB20B G.S. ELEV. 630.03 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
5-		1.8				T, organic matter, loose, moist  T, little clay, trace slag, gravel, stiff,			<b>10</b>	
N	OTES	S:	and Elevations in f	eet unk	ess otherwise noted				* **	

2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

	JEC <sup>-</sup>	T NAN	<sub>dE</sub> Bayer Corp.	, New M	lartinsville, WV	WATER LEVELS RELATIVE TO G.S	SURFACE	BORING NO. SGA-T	B20A
ر OR <i>ان</i>	ING	LOCA	ATION SWMU Gr	oup A	,	DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>636.00</u>	
			RM Microseeps			WELL LEVEL N/A	<del></del>	CASING ELEV. N/A	<u> </u>
			THOD Geoprob	e		EASTING_747.62		START DATE 11/17/	99
			G. Werkman			NORTHING -3511.08 FINISH DATE			99_
						THOM:			Ī
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
5-		2.0		<b>-</b>	moist .				5
	OTE:		and Elevations in f	ant unid	es atherwise nated				-

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

**BORING LOG** 

PROJECT NAME Bayer Corp., New BORING LOCATION SWMU Group A DRILLING FIRM Microseeps  DRILLING METHOD Geoprobe LOGGED BY G. Werkman		WATER LEVELS RELATIVE TO G DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 758.04 NORTHING -3510.63		BORING NO. SGA-T G.S. ELEV.637.02 CASING ELEV. N/A START DATE 11/17/ FINISH DATE 11/17/	99
SAMPLE SAMPLE (feet) (feet) HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
2.9	moist  White, Plant Resid	due, crystalline, v. loose, moist			5
NOTES:  1. Depths and Elevations in feet un 2. USCS Classification based on vis 3. NS-Not surveyed 4. NE-Not encountered	less otherwise noted	es	S	heet 1 of 1	10

DRIL DRIL	OJECT NAME_Bayer Corp., New Martinsville, WV ORING LOCATION_SWMU Group A RILLING FIRM_Microseeps RILLING METHOD_Geoprobe OGGED BY_G. Werkman				lartinsville, WV	WATER LEVELS RELATIVE TO G.SL DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 764.30 NORTHING -3548.92		BORING NO. SGA-TE G.S. ELEV.636.72 CASING ELEV. N/A START DATE 11/17/9 FINISH DATE 11/17/9	99_
-						NORTHING	<del></del> !	<del></del>	
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, sandy SILT	, organic matter, loose, moist			
5-		2.1			loose, moist	ASH, trace polycarbonate pieces, v.	The We		Lo .
 } 0-	OTE:	e.					1	<u> </u>	L <sub>lo</sub>

<sup>1.</sup> Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

BORING LOG

	DJECT NAME Bayer Corp., New Martinsville, WV RING LOCATION SWMU Group A				Martinsville, WV	WATER LEVELS RELATIVE TO DURING DRILLING (ft-bgs) N		ACE BORING NO. SGA-TB18B  G.S. ELEV.624.80		
			RM			WELL LEVEL N/A		CASING ELEV. N/A	<u> </u>	
			THOD_ Hand Au	ger				START DATE 11/18/99		
וחפו	SEN	RY	G. Werkman		· ·	EASTING 755.01		FINISH DATE 11/18.		
				1		NORTHING -3608.03		T THISTI DATE	_	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	,	MATERIAL DESCRIPTION	REMARKS	ОЕРТН		
5-					Dk. yellow-brown	n, silty CLAY, plastic			5	
N	OTE	S:			·					
	1. De 2. U: 3. N:	epths SCS C S-Not	and Elevations in f Classification based surveyed encountered	eet unk I on vist	ess otherwise noted Jal-manual procedur	es		Sheet 1 of 1		

	JECT NAME Bayer Corp., New Martinsville, WV			fartinsville, WV	WATER LEVELS RELATIVE TO	S.SURFACE	BORING NO. SGA-T	A /99				
ľ				oup A		DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A						
			RM			WELL LEVEL	1	CASING ELEV. N/A				
			THOD Hand Aug	ger		EASTING_ 759.20		START DATE 11/18/	99_			
LOG	GED	BY_	G. Werkman			NORTHING -3604.71		FINISH DATE 11/18/	/99			
			<del></del>									
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	٠	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH			
						med. plasticity, soft, moist						
					White PLASTIC		18881	4				
5-					Bottom of boring 1.	.O II						
0- NI	OTES	<u> </u>							40			

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

BORING LOG

BORING DRILLII DRILLII	RILLING FIRM Microseeps RILLING METHOD Geoprobe RIGGED BY G. Werkman			fartinsville, WV	WATER LEVELS RELATIVE TO G DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 780.41 NORTHING -3587.53		BORING NO. SGA- G.S. ELEV.636.74 CASING ELEV. N/ START DATE 11/17 FINISH DATE 11/17	A /99
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
5-	1.4				T, organic matter, v. loose, moist  SH, v. loose, moist  4 ft	THE WAY WAS THE		5
2. U 3. N	epths ISCS C IS-Not	and Elevations in fo lassification based surveyed encountered	eet unle on visu	ess otherwise noted al-manual procedure	es	ع	Sheet 1 of 1	

_ ≥∂R DRIL DRIL	OJECT NAME Bayer Corp., New Martinsville, WV RING LOCATION SWMU Group A RILLING FIRM RILLING METHOD DGGED BY G. Werkman  ANALYTICAL			oup A	Aartinsville, WV	WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 807.58 NORTHING -3634.02		E BORING NO. SGA-TB17E G.S. ELEV.629.67 CASING ELEV. N/A START DATE 11/18/99 FINISH DATE 11/18/99			
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН		
						TIONS: dge, drum with TDI residue, ds protruding from bank					
		NA									
5-			-						-5		
	OTES				,				-10		

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

**BORING LOG** 

· · · · · · · · · · · · · · · · · · ·	<del></del>			
PROJECT NAME Bayer Corp., New Martinsville, WV	WATER LEVELS RELATIVE TO G.S			
BORING LOCATION SWMU Group A	DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>636.41</u>	I I
DRILLING FIRM Microseeps	WELL LEVEL N/A		CASING ELEVN	
DRILLING METHOD Geoprobe	EASTING_808.84		START DATE 11/17	7/99
LOGGED BY G. Werkman	NORTHING3614.51		FINISH DATE 11/1	7/99
	NONTHING	<del></del>	<u> </u>	
SAMPLE (Feet) HNu (PDII)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
Brown, sandy SIL1	T, organic matter, loose, moist			
1.3 Bottom of boring	White and gray ASH, polycarbonate pieces, v. loose,			
5-				10
NOTES:				
<ol> <li>Depths and Elevations in feet unless otherwise noted</li> <li>USCS Classification based on visual-manual procedure</li> </ol>	s	•		· [
3. NS-Not surveyed 4. NE-Not encountered		3	Sheet 1 of 1	

# **BORING LOG**

ROJECT NAME Bayer Corp BORING LOCATION SWMU G DRILLING FIRM Microseeps DRILLING METHOD Geoprof LOGGED BY G. Werkman	Group A	Martinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 814.64  NORTHING -3608.92		BORING NO. SGA-T G.S. ELEV. 636.73 CASING ELEV. N/A START DATE 11/17/ FINISH DATE 11/17/	99
DEPTH SAMPLE (feet) OI ATTAINANT OI TAILE	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-		Crushed LIMESTO White and gray As v. loose  WOOD PIECES and Bottom of boring	SH, little silt, trace TDI Residue, slag,	The property of the property o		-5

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   NS-Not surveyed
   NE-Not encountered

**BORING LOG** 

	DJECT NAME Bayer Corp., New Martinsville, WV				lartinsville, WV	DURING DRILLING (ft-bgs) N/A G.S. ELEV. 628.90				
BOR	ING	LOCA	TION SWMU Gr	oup A		WELL LEVEL N/A	L		[N	
			RM			- WELF LEVEL		CASING ELEV. N/A		
			TH0D	·	<del></del>	EASTING_837.26		START DATE 11/18/		
LOG	3ED	BY	G. Werkman			NORTHING -3653.12		FINISH DATE 11/18	/99_	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION		REMARKS	ОЕРТН	
					VISUAL OBSERV	ATIONS: e strands protruding from bank				
		NA							-	
5-									-5	
10-	†		,						10 (	
	2. U 3. N	epths SCS C S-Not	and Elevations in f Classification based t surveyed t encountered	eet unle f on visu	ess otherwise noted al-manual procedu	i res	Ş	Sheet 1 of 1		

ROJECT NAME Baye	er Corp., New M	lartinsville, WV	WATER LEVELS RELATIVE TO G.S						
dORING LOCATION_S			DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>635.88</u>				
DRILLING FIRM Micro	oseeps		WELL LEVEL N/A	ľ	CASING ELEV. N/				
DRILLING METHOD_G	eoprobe		EASTING 845.90		START DATE 11/17	/99			
LOGGED BY G. Werkin	nan		NORTHING3632.80		FINISH DATE 11/17	/99_			
	[2]	- · · · · · · · · · · · · · ·							
SAMPLE RECOVERY (feet) OI SAMPLE	ICAL (Edd)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH			
		Crushed LIMESTO	DNE						
2.4		Brown to It. gray red brick pieces,	/, sandy GRAVEL, little silt, trace clay, loose, moist						
		White and gray A	SH, v. loose, moist	The law has have have have have have have have have					
5-						-5			
NOTES:						10			

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   NS-Not surveyed
- 4. NE-Not encountered

**BORING LOG** 

BOR: DRIL DRIL	OJECT NAME_Bayer Corp., New Martinsville, WV  ORING LOCATION_SWMU Group A  SILLING FIRM  GGED BYG. Werkman  ANALYTICAL ( COMMON					WATER LEVELS RELATIVE TO OURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 867.10 NORTHING -3670.88				
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
					Dk. yellow-brown,	silty CLAY				
		: :			Black, POLYURETH		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
					Bottom of boring 3	3 ft			*	
										ļ
5-									-5	
-	:				*					
-					·					
-			·							
-					1					Section 2
10	2. US 3. NS	pths a SCS C S-Not	and Elevations in fo lassification based surveyed encountered	eet unle on visu	ss otherwise noted al-manual procedures	3	S	Sheet 1 of 1	<del></del>	

	DJECT NAME Bayer Corp., New Martinsville, WV				dartinsville, WV	WATER LEVELS RELATIVE TO G.SU				
			TION SWMU Gr	oup A	· · · · · · · · · · · · · · · · · · ·	DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>635.64</u>		
			RM Microseeps			WELL LEVEL_N/A	J	CASING ELEV. N/A		
			THOD Geoprob	e	·	EASTING_881.64		START DATE 11/17/	99_	
LOG	GED	BY_	G. Werkman	-		NORTHING -3646.18		FINISH DATE 11/17/	99_	
					<del></del>					
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
					Crushed LIMESTON	E		0,0,0,0		
	$\mathbb{N}$				Dk. brown, gravelly moist	y CLAY, little sand, trace silt, soft,			<u> </u>	
		3.1			White and gray ASH v. loose	H, trace black polycarbonate pieces,	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		•	
	$\left\  \cdot \right\ $		· .		IRON OXIDE, trace	TDI Residue, v. loose			-	
						LAY, trace sand, soft, moist				
				4	Bottom of boring 4	π				
5-						·			-5	
-										
-			;						71	
	OTES	<u> </u>			<del></del>	· · · · · · · · · · · · · · · · · · ·	1	<u> </u>	40	

<sup>1.</sup> Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

BORI DRILI	ROJECT NAME Bayer Corp., New Martinsville, WV  ORING LOCATION SWMU Group A  RILLING FIRM Hand Auger  OGGED BY G. Werkman					WATER LEVELS RELATIVE TO G.S.  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A		BORING NO. SGA-T G.S. ELEV.629.49 CASING ELEV. N/A START DATE 11/18/9	
						EASTING_903.44 NORTHING3685.29		FINISH DATE 11/18/99	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
10-NO	TES			eet unle	Bottom of boring 3	silty CLAY with black Polycarbonate			10
2. 3.	. USI	CS CI -Not			ss otherwise noted al-manual procedures	3	S	heet 1 of 1	

	OJECT NAME Bayer Corp., New Martinsville, WV ORING LOCATION SWMU Group A						WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>634.37</u>	
DR	ILL:	IN(	G FIF	RM Microseeps			WELL LEVEL N/A		CASING ELEV. N/A	
DR	ILL:	IN(	G ME	THOD Geoprob	e		EASTING_912.37		START DATE 11/17/9	99
LO	GGE	ΞD	BY_	G. Werkman			NORTHING -3666.59		FINISH DATE 11/17/	99_
DEPTH	L	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			-			Dk. brown, silty SA matter, dense, mois	AND, little gravel, trace organic st	0:-0:- -0:-0:-0 -0:-0:-0	-   -   -	
	$\ $	$\parallel$				V. dk. brown sand	dy GRAVEL, little silt, loose, moist			
				•		White and gray, AS	SH	}	d d	
İ			2.2			Brown, silty SAND,	some gravel, trace silt, dense, moist		· · · · · · · · · · · · · · · · · · ·	
										-
						Bottom of boring 4	i ft 	<u> </u>		
	  - 									-5
								:		-
							,			-
	NOT	ES	 i:			ss otherwise noted		1		10

<sup>2.</sup> USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

**BORING LOG** 

BORI DRIL DRIL	ING LIN LIN	LOCA G FIF G ME	ME Bayer Corp. ATION SWMU Gr RM Microseeps THOD Geoprob G. Werkman	oup A	Martinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 917.22  NORTHING -3659.37		BORING NO. SGA-1 G.S. ELEV. 635.10 CASING ELEV. N/ BTART DATE 11/17/ FINISH DATE 11/17	A /99
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
		2.6	·		Crushed LIMESTO  White and gray As and slag, v. loose	SH, trace black polycarbonate pieces	1 W W W W W W W W W W W W W W W W W W W	0.00.00.00.00.00.00.00.00.00.00.00.00.0	
- -						te ceramic pieces, v. loose  f, trace gravel and sand, soft, moist  4 ft			y'
5									-5
									-
10-	OTE	6.							10
	1. De 2. U: 3. N:	epths SCS C S-Not	and Elevations in f Classification based surveyed encountered	eet unk I on visu	ess otherwise noted al-manual procedure	es ·	5	Sheet 1 of 1	·

## **BORING LOG**

`` <b>`</b> `10,	JEC.	T NA	<sub>IE</sub> Bayer Corp.	, New M	Aartinsville, WV	WATER LEVELS RELATIVE TO G.SUF	RFACE	BORING NO. SGA-TI	B13C
DRآت	ING	LOCA	TION_SWMU Gr	oup A		DURING DRILLING (ft-bgs) N/A		3.S. ELEV. <u>629.50 es</u>	
DRIL	LIN	G FI	RM			WELL LEVEL N/A		CASING ELEV. N/A	
DRIL	LIN	IG ME	THOD Hand Aug	ger	<del></del>	EASTING_949.00 est.		START DATE 11/18/9	99_
LOG	GED	BY_	G. Werkman		· · · · · · · · · · · · · · · · · · ·	NORTHING -3723.00 est.		FINISH DATE 11/18/	99_
	Π						T	T	1
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-					LIMESTONE gravel Black, organic SIL  Bottom of boring 4	T			10
_/ N	OTE	S:	and Flourians is fo	aat usla	ss otherwise noted				
	2. US	SCS C S-Not	and Elevations in to lassification based surveyed encountered	on visua	ss otherwise noted al-manual procedures		S	heet 1 of 1	

## **BORING LOG**

BORING DRILLIN DRILLIN	OJECT NAME Bayer Corp., New Martinsville, WV RING LOCATION SWMU Group A  ILLING FIRM Microseeps ILLING METHOD Geoprobe GGED BY G. Werkman			Aartinsville, WV	WATER LEVELS RELATIVE TO G.S.  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 949.56  NORTHING -3703.20		BORING NO. SGA-TI G.S. ELEV.629.57 CASING ELEV. N/A START DATE 11/17/9 FINISH DATE 11/17/	99
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
10 NOTE	3.1			matter, TDI Residu		6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		5

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

## **BORING LOG**

			<sub>ME</sub> Bayer Corp.		lartinsville, WV	WATER LEVELS RELATIVE TO G.SURFA		Í		
r- <sup>/</sup> DR	INĠ	LOCA	ATION SWMU Gr	oup A		DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>633.57</u>		
DRIL	LIN	G FI	RM Microseeps			WELL LEVEL N/A		CASING ELEV. N/A	<u> </u>	
DRIL	LIN.	G ME	THOD Geoprob	e		EASTING_947.87		START DATE 11/17/	99_	
LOG	GED	BY_	G. Werkman			NORTHING -3680.04		FINISH DATE 11/17/	99_	
			<u> </u>				<del></del>			
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
5-		2.4					We have he		5	
ĺ	2. US 3. NS	pths CS C -Not			ss otherwise noted al-manual procedures	3	S	heet 1 of 1	<del>1</del> 0	

**BORING LOG** 

BORING DRILLIN DRILLIN	LOCA NG FII NG ME	ME Bayer Corp. ATION SWMU Gr RM Microseeps THOD Geoprob G. Werkman	oup A	Martinsville, WV	WATER LEVELS RELATIVE TO G.S DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 955.42 NORTHING -3666.57		BORING NO. SGA-T G.S. ELEV.634.11 CASING ELEV. N/A START DATE 11/17/9 FINISH DATE 11/17/	99_	
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
5-	1.6			Crushed LIMESTON White and gray ASI v. loose  Bottom of boring 4	H, trace black polycarbonate pieces,	STORM IN W W W W W W W W W W W W W W W W W W		- F	
NOTE	S:	and Florations in fe	et unle	ss otherwise noted			· · · · · · · · · · · · · · · · · · ·	Ч0 · ∤	

2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

			<sub>ME</sub> Bayer Corp. ATION SWMU Gr		lartinsville, WV	DURING DRILLING (ft-bgs) N/A G.S. ELEV. 628.49			B12B
l		IG FI				WELL LEVEL N/A		CASING ELEV. N/A	<u> </u>
			THOD Hand Aug	ger				START DATE 11/17/	
			G. Werkman			EASTING 1016.80		FINISH DATE 11/17/	
	JED	0.1_				NORTHING3720.73	<del></del>	TINISH DATE	<u> </u>
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-		R			Dk. yellow-brown, moist  Bottom of boring 3	silty CLAY, trace f sand, gravel, stiff,			5
'B—	OTES	S:	and Elevations in fo	pet unle	ss otherwise noted				
	2. US 3. NS	SCS C S-Not			ss otherwise noted al-manual procedures	3	5	Sheet 1 of 1	

BORING LOG

BOR: DRIL DRIL	ING LIN LIN	LOCA G FII G ME	ME Bayer Corp. ATION SWMU Gr RM THOD Hand Aug G. Werkman	oup A	fartinsville, WV	WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A EASTING 1002.83 NORTHING -3693.06			
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-					Dk. yellow-brown residue, stiff, mois				- 10
	2. US 3. NS	pths a SCS Cl S-Not	and Elevations in fe lassification based surveyed encountered	et unle on visua	ss otherwise noted al-manual procedure	\$	S	Sheet 1 of 1	ŷ

**BORING LOG** 

ÖR DRIL DRIL	DJECT NAME_Bayer Corp., New Martinsville, WV RING LOCATION_SWMU Group A ILLING FIRM_Microseeps ILLING METHOD_Geoprobe GGED BY_G. Werkman					WATER LEVELS RELATIVE TO DURING DRILLING (ft-bgs). WELL LEVEL N/A  EASTING 994.04 NORTHING -3667.22		BORING NO. SGA-TB012 G.S. ELEV.633.45 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99	
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		0.6			Crushed LIMESTON White and gray AS Refusal; bottom of	SH, v. loose		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	-
									-
5-									-5
	2. US 3. NS	pths a SCS C S-Not			ss otherwise noted al-manual procedures	s	1	Sheet 1 of 1	<del>1</del> 10

**BORING LOG** 

BOR: DRIL DRIL	SJECT NAME Bayer Corp., New Martinsville, WV RING LOCATION SWMU Group A  ILLING FIRM ILLING METHOD Hand Auger  GGED BY G. Werkman					WATER LEVELS RELATIVE TO G.SI DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 1038.23 NORTHING -3664.90		BORING NO. SGA-TI G.S. ELEV.629.08 CASING ELEV. N/A START DATE 11/18/9 FINISH DATE 11/18/	99
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	,	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
•	OTES	S: pths :	and Elevations in fe	et unle	Bottom of boring :	3 ft			TO 100
3	3. NS	-Not	lassification based surveyed encountered	on visua	al-manual procedure	S	5	Sheet 1 of 1	

Į ∛RO√	ROJECT NAME Bayer Corp., New Martinsville, WV					water levels relative to G.SURFACE BORING NO. SGA-TB11B			
) DR:	ING	LOCA	ATION SWMU Gr	oup A		DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>630.99</u>	
			RM Microseeps		<del></del>	WELL LEVEL N/A		CASING ELEV. N/A	
			THOD Geoprob			EASTING_1026.63		START DATE 11/17/	99_
			G. Werkman			NORTHING3659.39	<del></del>	FINISH DATE 11/17/	/99_
}				Τ. Ι		Nonthiano			Τ
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) NNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, silty SAND	, organic matter			
					stiff, moist	yey SILT, little sand, trace gravel,			
<b>!</b>		1.0				SH with silty Sand, dense, moist			
					Brown-yellow, cla stiff, moist	yey SILT, little sand, trace gravel,			
5-					Brown, silty CLAY, soft, wet	, trace sand, gravel, high plasticity,			-5
	$\left  \right $				V. dk. brown, AS	Н	~		
	11	1.5			Brown to red-bro	wn, silty CLAY, soft, wet		7	
	$\left  \left  \right  \right $				Brown, silty CLAY, polyurethane stra	, little sand, trace gravel, wood, ands, soft, wet			
					Bottom of boring	8 ft			
					-				<u> </u>
    -		r							10
1 -	OTE	٥.						•	

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

G -3646.08 FINISH DATE 11/17/99
DESCRIPTION TO REMARKS HE DESCRIPTION
ganic matter, trace
ر کے کے کی اور اور اور اور اور اور اور اور اور اور
5
Sheet 1 of 1

**BORING LOG** 

DRILLING FI	ME Bayer Corp., ATION SWMU Gro IRM Microseeps THOD Geoprobe	oup A	lartinsville, WV	WATER LEVELS RELATIVE TO G.SUIDURING DRILLING (ft-bgs) N/A WELL LEVEL N/A	0	BORING NO. SGA-TI B.S. ELEV.634.30 CASING ELEV. N/A BTART DATE 11/17/9	
LOGGED BY.	G. Werkman			EASTING_1003.67 NORTHING3629.88	F	INISH DATE 11/17/	99_
SAMPLE SAMPLE RECOVERY	ANALYTICAL SAMPLE ID	HNu (ppm)	,	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-			Crushed LIMESTON White and gray AS  IRON OXIDE, v. lo  White and gray AS  Bottom of boring 4	SH, v. loose	SCORE OF W W W IN IN IN IN W W W W W W W W W W W		5
2. USCS 3. NS-No	s and Elevations in for Classification based of surveyed of encountered	eet unle on visu	ess otherwise noted al-manual procedure	· ·	S	heet 1 of 1	10

## **BORING LOG**

BOR DRIL DRIL	ING .LIN .LIN	LOCA G FII G ME	ME Bayer Corp. ATION SWMU Gr RM Microseeps THOD Geoprob G. Werkman	oup A	fartinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 1019.01  NORTHING -3593.28	·	BORING NO. SGA-T G.S. ELEV.634.61 CASING ELEV. N/A START DATE 11/17/ FINISH DATE 11/17/	99	de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
					Crushed LIMESTO Brown-yellow, graslag, stiff, moist	ONE avelly CLAY, little sand, trace silt and		0.00		
		3.6				silt and clay, loose, moist yellow, gravelly CLAY, little sand, trace 4 ft				
5-									-5	
1	2. US 3. NS	pths a SCS C S-Not			ss otherwise noted al-manual procedure	es	S	heet 1 of 1	<del>-1</del> 0	

Jego.	JEC.	T NAI	ME_Bayer Corp.	New M	lartinsville, WV	WATER LEVELS RELATIVE TO G.SU	l l		B009
,_ØRI	ING	LOCA	ATION SWMU Gr	oup A		DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>635.09</u>	
DRIL	LIN	G FII	RM Microseeps			WELL LEVEL N/A		CASING ELEV. <u>N/A</u>	<b>`</b>
DRIL	LIN	G ME	THOD Geoprobe	<u> </u>		EASTING_1031.89		START DATE 11/17/9	99_
			G. Werkman			NORTHING -3556.77	<del></del>	FINISH DATE 11/17/	99
						TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL			
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTON	NE		6 70 70 8	
		3.7	,		Brown to brown-ye silt, stiff, moist  Bottom of boring 4	ellow, gravelly CLAY, little sand, trace			
5-									-5
	2. U 3. N	epths SCS C S-Not			ess otherwise noted al-manual procedures	s	S	Sheet 1 of 1	<del>1</del> 0

<del></del>	· · · · · · · · · · · · · · · · · · ·			
PROJECT NAME Bayer Corp., New Ma	artinsville, WV WATER LEVELS RELATIVE TO G.S	URFACE	BORING NO. SGA-	LB008
BORING LOCATION SWMU Group A	DURING DRILLING (ft-bgs) N/A		G.S. ELEV.635.38	\
DRILLING FIRM Microseeps	WELL LEVEL N/A		CASING ELEV. N/	<u> </u>
DRILLING METHOD Geoprobe		1	START DATE 11/17/	
LOGGED BY G. Werkman	EASTING 1042.86		i	
EOGOED BI	NORTHING3519.30		FINISH DATE 11/17	700
DEPTH SAMPLE RECOVERY (feet) OI BANANA HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	Crushed LIMESTONE		0,00	
3.2	Brown to brown-yellow, gravelly CLAY, little sand, trace silt, wood pieces, stiff, moist  Bottom of boring 4 ft			
5-				-5
NOTES:  1. Depths and Elevations in feet unless 2. USCS Classification based on visual- 3. NS-Not surveyed		·	Sheet 1 of 1	<b>-</b> -10 ·

DURING LOCATION SWMU Group A  DRILLING FIRM Microseeps  DRILLING METHOD Geoprobe LOGGED BY G. Werkman  ANALYTICAL SAMPLE ID  Crushed LIMESTONE  Brown, gravelly CLAY, little sand, trace slit, stiff, moist  Brown, gravelly CLAY, little sand, trace slit, stiff, moist  Brown of boring 4 ft	7/99
DRILLING METHOD Geoprobe LOGGED BY G. Werkman  ANALYTICAL SAMPLE ID  Crushed LIMESTONE  Brown, gravelly CLAY, little sand, trace silt, stiff, moist  Bottom of boring 4 ft	7/99
LOGGED BY G. Werkman  EASTING_1046.24 NORTHING_3481.11  FINISH DATE_11/2 NORTHING_3481.11  FINISH DATE_11/2  REMARKS  REMARKS  Crushed LIMESTONE  Brown, gravelly CLAY, little sand, trace silt, stiff, moist  Bottom of boring 4 ft	17/99
HEAD OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF SET OF S	
SAPITE ID E E Crushed LIMESTONE  Brown, gravelly CLAY, little sand, trace silt, stiff, moist  2.8  Bottom of boring 4 ft	ЕРТН
Brown, gravelly CLAY, little sand, trace silt, stiff, moist  2.8  Bottom of boring 4 ft	
Bottom of boring 4 ft	
5-	
	-5
NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. NS-Not surveyed 4. NE-Not encountered  Sheet 1 of 1	10

BOR DRIL DRIL	PROJECT NAME Bayer Corp., New Martinsville, WV BORING LOCATION SWMU Group A DRILLING FIRM Microseeps DRILLING METHOD Geoprobe LOGGED BY G. Werkman					WATER LEVELS RELATIVE TO G.S. DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 1050.03 NORTHING -3442.22		BORING NO. SGA-T G.S. ELEV.635.76 CASING ELEV. N/A START DATE 11/17/ FINISH DATE 11/17/	99	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
5-		3.0			Crushed LIMESTON Brown, gravelly CLA	AY, little sand, trace silt, stiff, moist			5	
	2. US 3. NS	pths a CS CI -Not			ss otherwise noted al-manual procedures		S	heet 1 of 1	<u>-10 : [</u>	A

OJECT NA	ME Bayer Corp., 1	New M	lartinsville, WV	WATER LEVELS RELATIVE TO G.S.L DURING DRILLING (ft-bgs) N/A	I		B005
ైబీఎRING LOC.	ATION SWMU Grou	up A		WELL LEVEL N/A	I	S.S. ELEV. <u>635.99</u> CASING ELEV. <u>N/A</u>	
	RM Microseeps				T I	START DATE 11/17/	
	THOD Geoprobe			EASTING 1052.17			
LOGGED BY_	G. Werkman			NORTHING -3402.96	<u> </u>	INISH DATE 11/17/	99
DEPTH SAMPLE RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			Crushed LIMESTON	NE			
2.7			Brown, gravelly CL	AY, little sand, trace silt, stiff, moist			
5-							-5
2. USCS ( 3. NS-No	and Elevations in fee Classification based of t surveyed t encountered	et unle on visu	ess otherwise noted al-manual procedure	s	_lS	heet 1 of 1	L <sub>10</sub>

BORING LOG

BOR DRIL DRIL	PROJECT NAME_Bayer Corp., New Martinsville, WV BORING LOCATION_SWMU Group A DRILLING FIRM_Microseeps DRILLING METHOD_Geoprobe LOGGED BY G. Werkman				Martinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 1050.16  NORTHING -3364.49		BORING NO. SGA-T G.S. ELEV.636.34 CASING ELEV. N/A START DATE 11/17/ FINISH DATE 11/17/	99	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
10- N	OTE	2.9			Bottom of boring 4	AY, little sand, trace silt, stiff, moist			5	
ľ	1. De	و. epths	and Elevations in 1	eet unl	ess otherwise noted				i	Ď

USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

ROJE	CT NAM	Bayer Corp.	New M	lartinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A		BORING NO. <u>SGA-T</u> B.S. ELEV. <u>636.32</u>	B003
SORIN	G LUCA	ATION SWMU Gr	oup n		WELL LEVEL N/A		CASING ELEV. N/A	
DRILLI	ING FI	RM Microseeps					START DATE 11/17/9	
		THOD Geoprobe			EASTING 1044.13	i		
LOGGE	D BY_	G. Werkman			NORTHING -3326.73	F	INISH DATE 11/17/	99
DEPTH	SAMPLE RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
				Crushed LIMESTO	NE			
	2.7			Brown, sandy CLA	Y, little gravel, trace silt, stiff, moist			
5-								Б
1. 2. 3.	USCS (	and Elevations in f Classification based t surveyed t encountered	eet unle I on visu	ess otherwise noted al-manual procedure	es	S	Sheet 1 of 1	<del>1</del> 0

BORIN DRILL DRILL	ROJECT NAME Bayer Corp., New Martinsville, WV ORING LOCATION SWMU Group A RILLING FIRM Microseeps RILLING METHOD Geoprobe OGGED BY G. Werkman				WATER LEVELS RELATIVE TO G.S. DURING DRILLING (ft-bgs), N/A WELL LEVEL N/A  EASTING 1028.98 NORTHING -3289.39	BORING NO. SGA-TB( G.S. ELEV. 636.91 CASING ELEV. N/A START DATE 11/17/99 FINISH DATE 11/17/99		1 al	
ОЕРТН	SAMPLE RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
5-	3.1			Crushed LIMESTO	CLAY, little sand, trace silt, stiff, moist			5	
2. 3.	Depths USCS C NS-Not			ess otherwise noted al-manual procedure	es	S	heet 1 of 1		

ROJECT NAME Bayer Corporation SWMU CORING LOCATION SWMU CORILLING FIRM Microseeps	Group A	dartinsville, WV	WATER LEVELS RELATIVE TO G. DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 1014.44		G.S. ELEV. <u>636.94</u> CASING ELEV. <u>N/</u> START DATE 11/17/	A /99
LOGGED BY G. Werkman			NORTHING -3253.51		FINISH DATE 11/17	/99
SAMPLE RECOVERY (feet) OI BILLATORNA THE SAMPLE	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
3		Crushed LIMESTO  Brown, sandy CLA trace silt, stiff, me	Y, little gravel, crushed limestone, pist		0.05.05.05.05.05.05.05.05.05.05.05.05.05	
5-						5
NOTES:  1. Depths and Elevations in 2. USCS Classification base 3. NS-Not surveyed 4. NE-Not encountered	feet unle ed on visu	ess otherwise noted al-manual procedure	es ·	, <i>S</i>	heet 1 of 1	

**BORING LOG** 

RO.	IEC:	ΓΝΔΙ	ME_Bayer Corp.,	New M	fartinsville, WV	WATER LEVELS RELATIVE TO G.S	URFACE	BORING NO. SM030-	TB05
			ATION SWMU 03		·	DURING DRILLING (ft-bgs) N/A		6.S. ELEV. <u>653.61</u>	
			RM Microseeps			WELL LEVEL N/A	k	CASING ELEV. N/A	4
			THOD Geoprobe	·		- 0155.01		START DATE 11/15/	99
			G. Werkman			EASTING 2133.01		INISH DATE 11/15/	
-						- NORTHING -2133.81	<u> </u>	I I I	ī
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTO	DNE			
			SM030TB05-0001			yellow to dk. gray, weathered SHALE, SILT, little sand, trace clay, dense,			
	IV						<u> </u>		
-		3.8		0			0.0		-
	$ \Lambda $	 							
	M		SM030TB05-0204				0.0		
	$\  \cdot \ $						F-0-17 6		
					Dk. brown, TDI R	RESIDUE, v. loose, moist	<u></u>		
					As above, wet	Lis vine (4 to obtain annual mar etc.	XXXXX XXXXX XXXXX [X]X]X	Water at 4 ft	-
	$\mathbb{N}$				·			,	
5-	$\  \ $	}					***** ***** *****		-5
] "	$\mathbb{W}$						X X X X X X X X X X X X X X X X		
	V						****** *******		
	$\left\{ \right\}$	1.8		0					}
	$\mathbb{I}$								
	$\parallel \parallel$						*		
•	1/1			!					
	$\  \cdot \ $						***** *****		
				į	Bottom of boring	8 ft	*****		
							ĺ		
	-								
10-									10
N	OTE:	S: epths	and Elevations in fo	eet unle	ess otherwise noted				
	2. US 3. NS	SCS C			al-manual procedure		S	heet 1 of 1	

BOR DRII DRII	ING LIN LIN	LOC IG FI IG ME	ME Bayer Corp. ATION SWMU 03 RM Microseeps THOD Geoprobe G. Werkman	80	Martinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 2148.99  NORTHING -2197.19	BORING NO. SM030-TB0 G.S. ELEV.653.02 CASING ELEV. N/A START DATE 11/15/99 FINISH DATE 11/15/99		
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	DTES		SM030TB04-1416	0	wet  Bottom of boring	es, f-m sandy SILT, trace clay, loose,		Water at 16 ft	-15
	l. De 2. US 3. NS	pths ICS C I-Not			ss otherwise noted al-manual procedure	s	Sh	eet 2 of 2	

DRILLING FIRM Microseeps  DRILLING METHOD Geoprobe  LOGGED BY G. Werkman  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 2148.99  NORTHING -2197.19  G.S. ELEV.653.02  CASING ELEV. N/A  START DATE 11/15/99  FINISH DATE 11/15/99	RO.	JEC1	T NAI	<sub>dE</sub> Bayer Corp.,	New M	lartinsville, WV	WATER LEVELS RELATIVE TO G.S			TB04	
DRILLING FIRM. MICHOSECUS  DRILLING FIRM. MICHOSECUS  DRILLING METHOD. Geoprobe  LOGGED BY G. Werkman  DRILLING FIRM. MICHOSECUS  EASTING 2148.99 NORTHING -2197.19  START DATE 11/15/99  FINISH DATE 11/15/99  FINISH DATE 11/15/99  REMARKS  REMARKS  REMARKS  REMARKS  REMARKS  DRIVEN TO Drown, Yellow to dk. gray, weathered SHALE, GRAVEL, shaley SILT, little sand, trace cisy, dense, moist  Dk. brown, TDI RESIDUE, v. loose, dry  Dk. brown, clayey, f SAND, little slit, trace gravel, dense, moist  Red-brown to brown-yellow, clayey, f-m SAND, little slit, trace gravel, dense, moist											
LOGGED BY  G. Werkman    ANALYTICAL   G. B.   G. Werkman   FINISH DATE   111/15/99					<del> </del>		WELL LEVEL 1978				
SM030TB04-0001   SM030TB04-0001   SM030TB04-0001   SM030TB04-0305   SM03	DRIL	LIN.	G ME	THOD Geoprobe	<u> </u>	<del></del>	EASTING 2148.99	- :-	START DATE 11/15/	99_	
AMALYTICAL SAMPLE ID SM030TB04-0001  SM030TB04-0001  SM030TB04-0305  SM030TB04-0305  AMALYTICAL DESCRIPTION  SM030TB04-0001  Brown to brown-yellow to dk. gray, weathered SHALE, GRAYEL, shaley SILT, little sand, trace clay, dense, moist  Dk. brown, TDI RESIDUE, v. loose, dry  Dk. brown, TDI RESIDUE, v. loose, dry  Dk. brown, clayey, f SAND, little slit, trace gravel, dense, moist  Red-brown to brown-yellow, clayey, f-m SAND, little slit, trace gravel, dense, moist	LOG	GED	BY_	G. Werkman			NORTHING -2197.19		FINISH DATE 11/15/	NISH DATE 11/15/99	
SM030TB04-0001  SM030TB04-0001  SM030TB04-0305  DK. brown, TDI RESIDUE, v. loose, dry Dk. brown, clayey, f SAND, little silt, trace gravel, dense, moist  2.9  Red-brown to brown-yellow, clayey, f-m SAND, little silt, trace gravel, dense, moist									T		
SM030TB04-0001  Brown to brown-yellow to dk. gray, weathered SHALE, GRAYEL, shaley SILT, little sand, trace clay, dense, moist  Dk. brown, TDI RESIDUE, v. loose, dry Dk. brown, clayey, f SAND, little slit, trace gravel, dense, moist  Red-brown to brown-yellow, clayey, f-m SAND, little silt, trace gravel, dense, moist	DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID			MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
SM030TB04-0305  O  DK. brown, TDI RESIDUE, v. loose, dry Dk. brown, clayey, f SAND, little silt, trace gravel, dense, moist  Red-brown to brown-yellow, clayey, f-m SAND, little silt, trace gravel, dense, moist				SM030TB04-0001					600000		
SM030TB04-0305  Dk. brown, TDI RESIDUE, v. loose, dry  Dk. brown, clayey, f SAND, little silt, trace gravel, dense, moist  Red-brown to brown-yellow, clayey, f-m SAND, little silt, trace gravel, dense, moist		$\mathbb{N}$				GRAVEL, shaley Si		00		-	
SM030TB04-0305  Dk. brown, TDI RESIDUE, v. loose, dry  Dk. brown, clayey, f SAND, little silt, trace gravel, dense, moist  2.9  0  Red-brown to brown-yellow, clayey, f-m SAND, little silt, trace gravel, dense, moist		$\ $	į			motot		<u> </u>	3 2 3		
Dk. brown, clayey, f SAND, little slit, trace gravel, dense, moist  2.9  O  Red-brown to brown-yellow, clayey, f-m SAND, little slit, trace gravel, dense, moist			3.2		0			0.0	<u> </u>	-	
Dk. brown, clayey, f SAND, little slit, trace gravel, dense, moist  2.9  O  Red-brown to brown-yellow, clayey, f-m SAND, little slit, trace gravel, dense, moist		$\  \ $						00			
Dk. brown, clayey, f SAND, little slit, trace gravel, dense, moist  2.9  O  Red-brown to brown-yellow, clayey, f-m SAND, little slit, trace gravel, dense, moist		$\  \cdot \ $		·					<u> </u>		
Red-brown to brown-yellow, clayey, f-m SAND, little silt, trace gravel, dense, moist				SM030TB04-0305				7777	<b>*</b>	-	
Red-brown to brown-yellow, clayey, f-m SAND, little silt, trace gravel, dense, moist		$\mathbb{N}$					, I SAND, little Siit, tiace gravel,			į	
Red-brown to brown-yellow, clayey, f-m SAND, little silt, trace gravel, dense, moist	5-	$\  \ $								-5	
Red-brown to brown-yellow, clayey, f-m SAND, little silt, trace gravel, dense, moist		V									
silt, trace gravel, dense, moist			2.9		0						
silt, trace gravel, dense, moist											
silt, trace gravel, dense, moist		$\  \ $		,							
		$\left  \right $			. :	silt, trace gravel, (	dense, moist				
		V	4		0						

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

I ∵,R∩	JECT	LNVWE	. Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SM030-TBO	03
				SWMU			DRILLING (ft-bgs) 9.0	G.S. ELEV. <u>655.124</u>		
DRI	I TNI	G FIRM	Pen	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
יזאח	L TN	GMFT	.——	— HSA to	5 ft. / Geoprobe		00.40.07500		START DATE 7/17/97	
		BY_G					NORTHING -2240.97529		FINISH DATE 7/17/97	
100							EASTING_2351.22144		I THIOLEDATE	
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
1-			0-1		SM030TB03-0001		own, fine to coarse sandy SILT, le fragments, trace gravel, dry			<b>-1</b>
2-						Brown, s	haley CLAY, little silt and fine to			_
3-			1-3	0			and, damp (CL)			-3
4-					SM030TB03-0305					4
5-			3-5	0						-5
6-	╢									-6
7-	\   									-7
8-	$\frac{1}{2}$				SM030TB03-0709					8
9.		43		0					Water at 9 ft-bgs.	9
10-	$\left  \right  $					Refusal,	SANDSTONE bedrock			-10
~{ }:11:	<u> </u>	40	<u> </u>			Bottom	of boring 11 ft-bgs			<u> </u>
/ ''.	IOTE	_								

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRO.	JECT	ΝΔΜΕ	- Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SM030-TB	02
				SWMU			DRILLING (ft-bgs) N/A		_G.S. ELEV.653.134	
DRIL	LING	FIRN	Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	<u></u>
					Stem Auger/Split	Spoon			START DATE 10/22/96	
			3. Squi		<u>-</u>		NORTHING ZZOZ.OZOGO		FINISH DATE 10/22/9	
					· · · · · · · · · · · · · · · · · · ·		EASTING -2204.99483	<del></del>	THOTTBATE	7
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1- 2- 3- 4-							ay, sand, gravel, rock fragments, 1. stiff to loose, nonplastic,   )		Boring continuously drilled from surface to 19 ft.	7 7 7
5- 6- 7-		·					due (brown-black, glassy granular to 3/8"), (fill)	×××× ×××× ×××× ×××× ×××× ×××× ××××		-6 -7
8- 9-								[x;x;x] xxxx; xxxx; xxxx; xxxx;		8 9
10-								***** *****		10
11-	] [						·	××××× ×××××		11
								[		H2
12-	1	h			.			*****		
13-	1				·			× × × × × × × × × × × × × × × × × × ×		H3
14-	1							[x]x]x] x_x_x_x_		H4
15-	1							*2*2*2		<b>H</b> 5
16-								[xxxxx] xxxxx3		<del> </del> 16
17-								×××× ×××××		-17
18-								****** ******		- <del>1</del> 8
19-					ŕ			× × × × × × × × × × × × × × × × × × ×		H9
20-	M	i.	5 4 6	- -		As above	e, med. stiff, wet to saturated	[x,x,x] [x,x,x] [x,x,x]		-20
21 75 4 0						As above	e, med. stiff to loose	[xŷxŷx] xÿxÿxÿ		21
22-	X	400	7 17		SM030TB02-2123		and siltstone, soft, damp	<u> </u>	Sample taken in siltstone.	-22
23-		100	50/4	0		Bottom o	f boring 23 ft	<del>  </del>		23

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   S			TNAME	Bay	er Cor	p., New Martinsvil	le, WV	WATER LEVELS	BORING SM030-TB01		
DRILLING FIRM   Pennsylvania Drilling Co.   SHO30TB01-0305   Pennsylvania Drilling Co.   START DATE   10/22/5   Pennsylvania Drilling Co.								DRILLING (ft-bgs) N/A	-G.S. ELEV.652.969		
DRILLING METHOD_Hollow Stem Auger/Split Spoon   LOGGED BY_B. Squire	l ne	311110 3111110	IG FIRM	Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A	CASING ELEV. N/A		
NORTHING _2205.2095	DI.	311 I TN	JG MET	HDD	Hollow	Stem Auger/Split	Spoon			START DATE 10/22/96	
Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia   Harmonia								NORTHING 2207.36834			
10	Ë		_		<del></del>			EASTINGECO.ECCCC	T		
1	11 E	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	SAMPLE		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
13		_  /\		13 10	0	SM030TB01-0000	slag, med	I. stiff to loose, nonplastic,			<b>-1</b>
10		3—	7	12							-3
75	1	4-		11		SM030TB01-0305					4
8-		5-	75	6	0						-5
As above, wet to saturated  As above, saturated  As above, saturated  As above, saturated  As above, few well rounded gravel  10- 12- 13- 75		6-		4		!					-6
8-		7	50	3	0		· As above	e, wet to saturated	[x(x(x)x] [x(x)x(x)		-7
9 100 3 0 4 4 3 3 2 11 50 11 0 2 12 12 12 13 75 4 0 8 8 7 7 7 15 100 8 0 14 13 13 13 13 13 13 13 13 13 13 13 13 13	~	8-X		3			As above	e, saturated			-8
11		9	100	3	0						-9
12-		10-		ļ			As above	e, few well rounded gravel	[x]x]x  x x x x  x x x x x		40
13		11-	50	1 2	0				× × × × × × × × × × × × × × × × × × ×		<b>-11</b>
14- 100 8 0 14 13 13 13 13 13 13 13 13 13 13 13 13 13		12-		1 2					***** *****		-12
15 100 8 0 14 13 13 13 13 13 15 10 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ļ	13-	75	1	0				×××× ×××× ×××××		<del>-1</del> 3
16-		14- X		1					x x x x x x x x x x x x x x x x x x x		14
17 100 15 0 As above		15	100	1	0				***** *****		<b>⊣</b> 15
18- 100 6 0 SM030TB01-1921 Sample taken in siltstone.  Yellow-brown-gray siltstone, dry		16-		13		i	•		***** *****		<b>⊣</b> 6
100 6 0	-	17	100	8	0		As above	e	***** *****		H7
20- SM030TB01-1921 SM030TB01-1921 Sample taken in siltstone.  Yellow-brown-gray siltstone, dry									***** *****		<del>  1</del> 8
33 3 3 Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salimple taken in Salim								•	*		-19
Yellow-brown-gray slitstone, dry	'	33							*		-20
Bottom of boring 21 ft	Yellow-						\				-21
V.		22-		<u> </u>	<u> </u>		Bottom	of boring 21 ft			

#### NOTES:

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

			- Na. H12	:::	WATER LEVELS		BORING_SM029-TE	302
			rp., New Martinsvi	iie, WV	DRILLING (ft-bgs) 17.0	·		
BORING LO				<del></del>	WELL LEVEL (ft-msi) NA	•	G.S. ELEV.640.056	
			ania Drilling Co.	<del></del>	10		CASING ELEV. NA	
			5 ft. / Geoprob	<u>e</u>	NORTHING 925.10570		START DATE 7/15/	/97
LOGGED B	Y G. WE	erkman			EASTING 763.91530	<del>.</del>	FINISH DATE 7/15	/97
					EAGTING			T
DEPTH GEOPROBE RECOVERY	(percent) AUGER SAMP.	HNu Reading (P.1.)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			SM029TB02-0001	Asphalt p	pavement	00.		
1-	0-	-1		Brown, fi	ne to coarse SAND with fine			H
2-	- 1			\ grave, re   \ damp (fi	ew crushed stone, trace clay, II)	/		_2
			}	Light bro	wn, fine to medium sandy SILT,	_ []		-
3-	1-3	3 0		trace fin	e, subrounded gravel, trace clay,			-3
4-			SM029TB02-0305	damp (M	L-5M)			4
1 1	,	_   _	5.70201202 0000			:-		
5	3-	5 0			·			-5
6-\\								-6
	İ							ľ
7-  X	•						•	<del>-</del> 7
8-//	ŀ							-8
1 / /			]					1
9-	45	0			• • •		•	9
10-\\ /								40
I " V								
<b>I</b> "┤					d gray, SILT and CLAY, few fine			-11
12-//	ľ			sand, tra	ce fine gravel, damp (ML-CL)			12
1 / V	400		'	-				1
13-	100	0		Brown, fir	ne to medium sandy SILT, few	<u> </u>		H3
14-\\ /				clay, dan				14
I IVI					ne to medium SAND, few silt, moist			
15-				(SP)			-	<del>1</del> 5
16-//			SM029TB02-1517					-16
/	100		]					
17	100	0					Water at 17 ft.	<del>  1</del> 7
18\\ /								H8
1 IVI								
19-							•	<b>⊣</b> 9
20-//								-20
1 <sup></sup>  / \				Dottom o	f boring 21 ft			. *
1 / V	30	^ 1		DOLLOW O	i bolling zi it			

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

**BORING LOG** 

.∎ PRO	PROJECT NAME Bayer Corp., New Martinsville, W\ BORING LOCATION SWMU 029						WATER LEVELS		BORING SMO29-TB01		
1				SWMU			DRILLING (ft-bgs) 14.8		— G.S. ELEV. <u>639.518</u>		
			1011		nia Drilling Co.		WELL LEVEL (ft-msl) NA	٠	CASING ELEV. NA		
DEL	LLIN	10 HEZ	1 <u></u>	HSA tr	5 ft. / Geoprobe	<del></del> :			START DATE 7/15/9	97	
							NORTHING 910.42884	<del></del>	l l		
LOG	GED	BY_	. NEIK	midii			EASTING 949.39201		FINISH DATE 7/15/	<del></del>	
ОЕРТН	( 기교 호 의						MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
					SM029TB01-0001	Asphalt	pavement	0 0.			
1-	4		0-1				own, fine to coarse SAND with fine	0 0		H	
							se, subrounded to subangular few silt, very moist (fill)	0 0		-2	
2-	1						<u> </u>	0. 0.			
3-	-	ł	1–3	0			prown, fine to coarse sandy CLAY, e to medium gravel, few silt, wet			-3	
1					SM029TB01-0305	(CL)	, to median graver, ten ant, net			4	
4-			}		34029 1 DOI::0009				•		
5-	+		3-5	0						-5	
6-	$\Lambda /$	1	ļ ļ	ļ	ł					-6	
	1 V									_7	
<b> </b>	$\Lambda$										
∫ 8-	${}^{4}/{}^{1}$	.[							,	-8	
9-	1	26		0				77777		-9	
*		Λ					d brown silty CLAY, few sand, moist				
10-	<b>┤</b> \ /	'			[	(CL-ML	)			10	
11-	11									11	
"	1										
12-	╢╽	\l								H2	
13-		55		0					SM29TB01-1214	13	
13	1	1			CMOOCEDOL 1011				collected from 12.8	1	
14-	∄\ /	[			SM029TB01-1214				to 14.8 ft.	-14	
15	<b>┦</b> Х					Brown, 1	fine to medium SAND, few silt, wet	- (7/2)	Water at 14.8 ft.	<b>-15</b>	
16-	$\downarrow / \setminus$	$\setminus$				(SP)				16	
17	1	63		0						-17	
18	Λ.	/				·				<del> </del> 18	
19	11									H9	
l	$1$ /\									-20	
20	7/ '	$\setminus$				Rottom	of boring 21 ft			-	
~``\ 21∙	JOTE	85	<u> </u>	1_0_		DULLUM	or porting as it	<u> 150004</u>	<del></del>	<u> 1</u> 21	

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

Page 1 of 1

(

PROJ	JECT	T NAME	Bay	yer Co	p., New Martinsvil	lle, WV	WATER LEVELS		BORING SM028-TB	ر <u> 02</u>	
	BORING LOCATION SWMU 028  DRILLING FIRM Pennsylvania Drilling Co.						DRILLING (ft-bgs) 18.3		G.S. ELEV.639.359		
							WELL LEVEL (ft-ms!) NA		CASING ELEV. NA		
DITE	I TAI	C MET	" UOD	HSA to	5 ft. / Geoprobe	<del></del>		·	START DATE 7/14/97		
			3. Werk		<u> </u>		NORTHING 474.49830		FINISH DATE 7/14/97		
LUG	טבט	B1					EASTING 966.36133	· · · · · ·	FINISH DATE 17147	-	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
				}	SM028TB02-0001		ushed stone aggregate (fill)				
1-		ĺ	0-1				aley CLAY, little gravel, few fine to sand, damp (CL)			H	
2-	,					coarse s	dana, danip (oc)			-2	
-			, ,		[						
3-	Ì		1–3	0						-3	
4-			; ;		SM028TB02-0305					-4	
_	j		3-5	0					-		
5-										15	
6-	$  \setminus    $									-6	
7	ľ		·i							7	
'-	١٨١										
8-	$V \setminus$									-8	
9-		70		0			y, silty, fine to coarse SAND,			9	
	Λ/		·			trace cia	ay,damp (SM)			1.	
10-	V	i				Dark bro	wn, clayey, fine to coarse SAND,			H0	
11	I X I					few silt,	trace fine gravel, damp (SC)			<b>H1</b>	
	М									],,	
12-	$V \setminus$								·	H2	
13-		80		0						<b>-13</b>	
4.4	\ /								•	H4	
14-	M				-	Drawn fi	ing to modium CAND four sitt damp	137.137		"	
15-	XI					(SP)	ine to medium SAND, few silt, damp		•	<b>4</b> 5	
16-	$ \Lambda $	•								H6	
	/\										
17-		100		0	SM028TB02-1618					<del>  1</del> 7	
18-	\ /									H8	
	W			1					Water at 18.3 ft.	1	
19-	$ \Lambda $									H9	
20-	//									-20	
21		80				Bottom o	of boring 21 ft			- المركب	
	OTES	3.								1	

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

, ppc	JIEC.	TNAME	- Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SM028-TE	301
		LOCAT					DRILLING (ft-bgs) 12.3		— G.S. ELEV. <u>639.753</u>	
חסטו	14 T 1 ]]	LOCAI	ــــانا Per پر	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) NA	·	CASING ELEV. NA	
חאו		IC MET		HSA to	5 ft. / Geoprobe	<del></del> !			START DATE 7/14	
							NORTHING 468.87407		FINISH DATE 7/14	
LO	3GED	BY	J. WEIT	AIII GIT			EASTING_995.19547	<del></del>	FINISH DATE	· · · · ·
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM028TB01-0001	<u> </u>	ushed stone aggregate (fill)			
1	4	1	0-1			Light bro	own-gray, shaley clay, little fine to gravel, few fine to coarse sand,			H
Ι,						damp (C				-2
'	· -								•	
3	;- <del> </del>		1–3	0					•	-3
4		1			SM028TB01-0305					4
				1 _						1_
5	<del>;</del>	1	3-5	0						<b>⊢</b> 5
۱ و	. /[.	1								-6
`	$\mathbb{W}$									
. 7	<u>'</u>									-7
<b>)</b> 8	$\backslash \backslash \lfloor$									-8
1		٠	1							
9	+	10		0		Light br	own-gray, clayey SILT, few fine to			-9
10	$^{\prime}$	/				coarse	sand, trace fine gravel (ML-CL)			-10
	11									
1	┧╟	ł		<u> </u>	SM028TB01-1012					H
12	$\Box / \Box$	\ l	ĺ	ł						12
"	·	١	ļ					- 7///	Water at 12.3 ft.	
13	3+	95		0		Brown, 1 wet (CL	fine to medium sandy CLAY, few silt, .)			-13
14	, / [	/\	1				•			<del> </del> 14
	$  \rangle$	'								
15	₹ }									<b>⊣</b> 5
16	<u>,</u>  /\	N I								-16
	1	\				Dark br	own, fine SAND, little silt, wet (SP)			ج. ا
17	1	58		0	,				·	<b>⊢</b> 17
1 18	₃- \ .	/				Same a	s above, trace clay, very wet			<del>-1</del> 8
"	V		1							1,0
19	₹∤									H9
20	۱/إـ	$\setminus$								-20
7	- /	V				Bottom	of boring 21 ft			
2	NOTE	<del></del> -S:	<del></del>		_!					21

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

BORI DRILI DRILI	NG L LING LING	OCA FIF ME	ME Bayer Corp.  ATION SWMU 02  RM Microseeps  THOD Geoprobe  G. Werkman	7	Martinsville, WV	WATER LEVELS RELATIVE TO DURING DRILLING (ft-bgs) N WELL LEVEL N/A  EASTING NORTHING	GS FIFV		
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
15-	TES	3.8	SM027TB09~1315	0	As above, soft, moi			Water at 15.3 ft	-15
1. 2 3	Dep US NS	oths a CS CI -Not			ss otherwise noted al-manual procedures		Sh	eet 2 of 2	800

## **BORING LOG**

		_			WATER LEVELS	RELATIVE TO G.SURFACE	BORTNE NO SM027-T	ГB09	
			ME Bayer Corp.,			41/4			
<sub>re</sub> ˈ̇́oRi	NG	LOCA	1 / 4	G.S. ELEV.					
DRIL	LIN	G FIF	RM Microseeps		WELL LEVEL_		CASING ELEV. N/A		
			THOD Geoprobe	<u> </u>			START DATE 11/15/9	99_	
			G. Werkman		1		FINISH DATE 11/15/	99_	
					NORTHING			<del></del>	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH	MATERIAL DESCR	SYMBOL	REMARKS	DEPTH	
			<del> :</del>		Crushed LIMESTONE		8		
l	N /		SM027TB09-0001	1	Black ASH	00000			
	N 1			}	Brown, clayey SILT, little f sand, trac	e gravel stiff			
	<b> </b>				moist	graves, esting		1	
1	W								
j	IV								
		4		0	•			<b>†</b>	
ŀ	۱ ۸							ĺ	
	М								
	W							}	
	۱I						3		
J.								1	
)	ľ	1	SM027TB09-0305					ļ	
Ī			360271809-0303		As above				
	1							1	
	$\mathbb{N}I$							L	
.5-	11/			1				5	
	W								
1	IV								
	1	4		0					
	۱٨								
	Ш								
	H							}	
1	1/ 1								
1	1	\\						1	
					A contract			1	
	1	1			As above			ŀ	
	$   \rangle$	"							
	11		1						
1	1 1								
1	$ /\rangle$								
	<b>\</b>	\\						}	
0-	1	3	J	0				<del>11</del> 0	
$-\mathcal{J}^{I}$ N	IOTE	:S:	. d Flouritana in A		os atherwise nated				

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

BORING DRILLIN DRILLIN	LOCA G FII G ME	ME Bayer Corp., ATION SWMU 02 RM Microseeps THOD Geoprobe G. Werkman	7	Martinsville, WV	WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A EASTING 1075.68 NORTHING 310.60		BORING NO. SM027-TB08 G.S. ELEV. 641.25 CASING ELEV. N/A START DATE 11/12/99 FINISH DATE 11/12/99	
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DÉSCRIPTION	SYMBOL	REMARKS	DEPTH
15-	出 3. 6.	SM027TB08-1012	0	As above, grading	to brown-yellow, wet		Water at 12 ft	15
2. US 3. NS	pths a CS CI -Not			ss otherwise noted al-manual procedures		Sh	eet 2 of 2	20

ROJECT NAME Bayer Corp., BORING LOCATION SWMU 02 DRILLING FIRM Microseeps DRILLING METHOD Geoprobe LOGGED BY G. Werkman	7	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 1075.68  NORTHING 310.60		BORING NO. SM027-TB08 G.S. ELEV.641.25 CASING ELEV. N/A START DATE 11/12/99 FINISH DATE 11/12/99		
SAMPLE RECOVERY (feet) all all all all all all all all all all	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
SM027TB08-0001  SM027TB08-0305  SM027TB08-0305	22	ASPHALT Crushed LIMESTONE Brown-yellow, clayey SILT, little gravel and sand, stiff, moist  Dk. gray, f sandy SILT, little clay, stiff, moist  Dk. gray, silty CLAY, trace f gravel, high plasticity, soft, moist			F .	
0 / 4	0			4	Ц0	

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

**BORING LOG** 

BORI DRILI DRILI	NG LIN( LIN(	LOCA G FII G ME	ME Bayer Corp., ATION SWMU 02 RM Microseeps THOD Geoprobe G. Werkman	7	fartinsville, WV	WATER LEVELS RELATIVE TO G.S DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 1074.57 NORTHING 104.79		BORING NO. SM027- B.S. ELEV. 641.66 CASING ELEV. N/A BTART DATE 11/15/ FINISH DATE 11/15/	99
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	$\bigvee$						8/8/ 8/8/ 8/8/ 8/8/ 8/8/ 8/8/		
15-		4		0	Red-brown, silty C plasticity, soft, mo	CLAY, trace sand and gravel, med.  pist			-15
		4	SM027TB07-1820	0	Red-brown, silty C to wet	CLAY, trace sand, soft, moist grading		Water at 19.7 ft	
20_	TES	 S:			Bottom of boring 2	20 11	<u> </u>	1	⊥ <sub>20</sub>

USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

Sheet 2 of 2

ROJECT NAME BORING LOCAT DRILLING FIRM DRILLING METH LOGGED BY G	ION SWMU 02 Microseeps HOD Geoprobe	7	lartinsville, WV	WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A EASTING 1074.57 NORTHING 104.79	<del></del>	BORING NO. SMU27-1807 G.S. ELEV.641.66 CASING ELEV. N/A START DATE 11/15/99 FINISH DATE 11/15/99	
DEPTH SAMPLE RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
4	M027TB07-0305	0	Dk. gray, f sandy  As above, trace gr	ey SILT, little sand and gravel, stiff,			
NOTES:		0			Ø/Ø/ /		-10

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   NS-Not surveyed
   NE-Not encountered

PRO.	IEC:	Т МАМЕ	- Bay	yer Cor	rp., New Martinsvi	lle, WV	WATER LEVELS		BORING SM027-TBO	06_ 1
				SWMU			DRILLING (ft-bgs) 15.8		G.S. ELEV.640.211	
					nia Drilling Co.		WELL LEVEL (ft-msl)_NA	-	CASING ELEV. NA	
					5 ft. / Geoprob	e			START DATE 7/14/	97
					7 0 Tt. 7 Occopios	<u> </u>	NORTHING 219.92330			
LOG	GED 	BY	o. Weir	(IIIan			EASTING 1234.81022		FINISH DATE 7/14/	97
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
						Concrete		\$2\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
1-			0-1		SM027TB06-0001	clay, few	ne to coarse sandy SILT, little fine, subangular gravel, trace TDI			
2-			1			<u> </u>	pieces of wood, damp (fill)			2
.3-			1-3	0			ne to coarse sandy CLAY, few silt, e, subangular gravel, damp (CL)			-3
4					SM027TB06-0305					4
5-	-		3-5	0						-5
6-	$\left\{ \right. \right\}$		;				ayey SILT, few fine to coarse ce fine gravel, damp (ML-CL)		<del></del> ·	6
7-	ł۷									7
8-	ł۸									8
9-	<i>ا</i> ا	73		1.8	i.					-9
10-				1.0			ayey SILT, little fine to coarse ce fine gravel, damp (ML-CL)			10
11-	╢									H1
12-	l٨									-12
13-	$/\!/$	100		0						-13
14-							ayey SILT, little fine to coarse np (ML-CL)		SM27TB06-1315 collected from 13.8	-14
15-	$\  \cdot \ $				SM027TB06-1315				to 15.8 ft.	<b>4</b> 5
16-	$\mathbb{N}$								Water at 15.8 ft.	<b>46</b>
17-		100		6.9					·	-17
18-	\ /					Brown, fir saturated	ne to medium SAND, little silt, d (SP)			<del>-1</del> 8
19-	∤									-19
20-						•				-20
21-		28		96.9		Bottom o	f boring 21.5 ft			21 1
N	OTE	S:								1

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

BORING LOCATION   SMMU 027   DRILLING FIRM   Pennsylvania Drilling Co.   DRILLING METHOD   HSA to 5 ft. / Geoprobe   LOGGED BY   6. Merkman   EASTING   189.78548   EASTING   189.78548   FINISH DATE 77/11/97	PR(	JEC.	T NAME	Bay	er Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING SM027-TB	05
DRILLING FIRM Pennsylvania Drilling Co.   DRILLING METHOD. HSA to 5 ft. / Geoprobe   LOGGED BY S. Werkman   START DATE 7/11/97   START DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FINISH DATE 7/11/97   FI										G.S. ELEV.640.502	
DRILLING METHOD								WELL LEVEL (ft-msl) NA			
LOGGED BY   G. Werkman							;	400 4400 4		START DATE 7/11/9	97
Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard								NORTHING 189.44204		i i	
1-2   386   SM027TB05-0102   Brown, CLAY with fine gravel, little fine to coarse send, trace sit, moist (CL)   2   2   2   3   3   4   4   5   5   6   6   7   7   8   7   7   7   8   7   7   7	٢	JOL. L	D					EASTING 1109.76546		FINISH DATE	<del></del> -
1	DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	SAMPLE		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1-2   366   SM027TB05-0102   Dark gray, fine to medium sandy SILT, few clay, trace fine gravel, damp (ML)							Concrete			·	İ
Derk gray, fine to medium sandy SILT, few clay, trace fine gravel, damp (ML)  3		1			306	SM027TB05-0102			D 0	•	H
SM027TB05-0305   SM027TB05-0305   SM027TB05-0305   SM027TB05-0305   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-0810   SM027TB05-1214   SM027TB05-1214   SM027TB05-1214   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM027TB05-1418   SM02	2	1	ļ	1-2	300		~				-2
5-6 6-7-8-9-0 95   932   Brown, silty CLAY, little fine sand, trace fine gravel, damp (CL-ML)  5-6 6-7-8-9-0 95   932   SM027TB05-0810   95 11-12-13-14-15 13-14-15 16-17-18-100   849   Elight brown, clayey SILT, trace fine sand, very wet (ML-CL)  18-19-100   849   Brown-gray, fine to medium sandy CLAY, few silt, wet (CL)  19-20-21-100   820   Bottom of boring 22 ft	3	-									-3
Brown, silty CLAY, little fine sand, trace fine gravel, damp (CL-ML)  8- 9- 10- 95   SM027TB05-08I0   95   999   10   11- 12- 13- 14- 50   1205   SM027TB05-1214   13   14   15   16   16   17- 18- 19- 100   649   Brown, clayey SILT, trace fine sand, very wet (ML-CL)   17   18   19- 20- 20- 21- 21- 22- 100   820   Bottom of boring 22 ft   932	4	4				SM027TB05-0305					-4
Brown, silty CLAY, little fine sand, trace fine gravel, damp (CL-ML)  8- 9- 10- 95   SM027TB05-08I0   95   999   10   11- 12- 13- 14- 50   1205   SM027TB05-1214   13   14   15   16   16   17- 18- 19- 100   649   Brown, clayey SILT, trace fine sand, very wet (ML-CL)   17   18   19- 20- 20- 21- 21- 22- 100   820   Bottom of boring 22 ft   932	١,										٢
Brown, sitty CLAY, little fine sand, trace		7									
8-9-10-10-11-12-13-14-15-14-15-16-16-16-16-17-18-100-18-19-100-18-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100-19-100	6	t	1	2-6	932	<u> </u>	Brown, s	ilty CLAY, little fine sand, trace	1///		<b> </b> -6
SM027TB05-0810  95  10- 11- 12- 13- 50  1205  SM027TB05-1214  15- 16- 17- 18- 100  649  Elight brown, clayey SILT, trace fine sand, very wet (ML-CL)  Brown-gray, fine to medium sandy CLAY, few silt, wet (CL)  Brown, fine to medium SAND, few silt, wet  19- 20- 21- 21- 22- 100  Bottom of boring 22 ft	7	$-$ \/	[				fine grav	vel, damp (CL-ML)			-7
10	P/ 8	-  X									8
11- 12- 13- 14- 50 1205 SM027TB05-1214 -13 -13 14- 15- 16- 16- 17- 18- 100 649 Eight brown, clayey SILT, trace fine sand, very wet (ML-CL) Brown-gray, fine to medium sandy CLAY, few silt, wet (CL) Brown, fine to medium SAND, few silt, wet (SP) -20 -21 100 820 Bottom of boring 22 ft	Í 9	$\rfloor \! / \! \setminus$				SM027TB05-0810					9
11- 12- 13- 14- 50 1205 SM027TB05-1214 -13 -14 15- 16- 16- 17- 18- 100 649 Eight brown, clayey SILT, trace fine sand, very wet (ML-CL) Brown-gray, fine to medium sandy CLAY, few silt, wet (CL) Brown, fine to medium SAND, few silt, wet (SP) -20 -21 100 820 Bottom of boring 22 ft	10	_	95		>1999						-10
12- 13- 14- 15- 16- 17- 18- 100  849  Light brown, clayey SILT, trace fine sand, very wet (ML-CL)  Brown-gray, fine to medium sandy CLAY, few silt, wet (CL)  Brown, fine to medium SAND, few silt, wet (SP)  Bottom of boring 22 ft  100  820  Bottom of boring 22 ft		Λ,									<u> </u>
SM027TB05-1214   13   14   15   16   16   17   18   100   19   20   21   100   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820   820	1	٠IV									12
14	1	ТΛ				CM027TD05_1214					
SM027TB05-1416  Light brown, clayey SILT, trace fine sand, very wet (ML-CL)  Brown-gray, fine to medium sandy CLAY, few silt, wet (CL)  Brown, fine to medium SAND, few silt, wet (SP)  Bottom of boring 22 ft			50		1205	3MU27 1803-1214					
Light brown, clayey SILT, trace fine sand, very wet (ML-CL)  Brown-gray, fine to medium sandy CLAY, few silt, wet (CL)  Brown, fine to medium SAND, few silt, wet (SP)  Bottom of boring 22 ft	14		7		.200						
Light brown, clayey SILT, trace fine sand, very wet (ML-CL)  Brown-gray, fine to medium sandy CLAY, few silt, wet (CL)  Brown, fine to medium SAND, few silt, wet (SP)  Brown, fine to medium SAND, few silt, wet (SP)  Bottom of boring 22 ft	15	1∖/				SM027TB05-1416					<b>⊣</b> 5
Brown-gray, fine to medium sandy CLAY,   few silt, wet (CL)   Brown, fine to medium SAND, few silt, wet (SP)   -20   -21	16	1 /								Water at 16.2 ft.	<b>⊣6</b>
18   100   649   few silt, wet (CL)   Hsown, fine to medium SAND, few silt, wet (SP)   -20   -21   -21     Bottom of boring 22 ft   -22	17	۱ /	$\bigvee$								<del>  1</del> 7
19— 20— 21— 22— 100 820 Bottom of boring 22 ft	18	+	100		649		few silt,	wet (CL)	<b>ノ</b> [編]		<b>⊣</b> 8
21- 21 100 820 Bottom of boring 22 ft	19	$\exists \setminus f$	1					ine to medium SAND, few silt, wet			-19
22 100 820 Bottom of boring 22 ft	20	<b>┤</b>			}						-20
22	2	-{/\									-21
			1		820	<u> </u>	Bottom o	of boring 22 ft			<u> 1</u> 22

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PROJ	ECT	T NAME	Bay	yer Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING SM027-TBC	14
				SWMU			DRILLING (ft-bgs) 15.3		- G.S. ELEV. <u>639.625</u>	<u> </u>
					nia Drilling Co.		WELL LEVEL (ft-msi) NA		CASING ELEV. NA	l
DRIL	LIN	G MET	HOD	HSA to	5 ft. / Geoprobe	2	050 00454		START DATE 7/11/9	7
		BY_					NORTHING_258.90151		FINISH DATE 7/11/9	
1000							EASTING_1126.75002	<del></del>	I INION DATE	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM027TB04-0001		ished stone aggregate (fill)	10000		l [
1-			0-1	16.7			ne to coarse sandy SILT, few ce gravel, damp (ML)			<b>†  </b>
2-							wn, fine to coarse sandy SILT,	. —		_2
_			, ,				el and clay, damp (ML)			
3-			1-3	24.2				:-		-3
4-					SM027TB04-0305					<b>⊢</b> 4
			3-5	34.8	]					-5
5-				54.5			y, silty CLAY, trace fine sand and			ſĬ
6-	$\mathbb{N}$	Ì			1	fine grav	el, damp (CL)			-6
7	٧.									-7
'	$ \Lambda $		,							
8-	//		ļ							8
9-		88		3.8						9
	N /						ne to medium sandy SILT, few ce fine gravel, damp (ML)			
10-	W					5.5 <b>7,</b>	gravely very			⊣0
11-	X									-11
40	M				SM027TB04-1113					<del>-1</del> 2
12-	/		,		SMU2/1604-1115			1		"-
13-		90		138.2					SM27TB04-1315	⊣3
14-	$\mathbb{N}/$				[				collected from 13.3	H4
	V				SM027TB04-1315				to 15.3 ft.	
15-	ΙX					Brown fi	ne to medium SAND, few silt, trace	73.73	Water at 15.3 ft.	<b>⊣</b> 5
16-		<u> </u>				clay, wet				<del>-1</del> 6
	V	100		102						
17-		100		102						H7
18-	$\mathbb{N}$	ļ.				ı				<del>1</del> 8
40	1									<b>-19</b>
19-	ΙÅ		1							"
20-	$\  / \ $		1		[					-20
21-	<u> </u>	100	<u></u>	2.3		Bottom o	f boring 21 ft			L21/-
1	OTE	g.								/

- 1. Depths and Elevations in feet unless otherwise noted
   2. USCS Classification based on visual-manual procedures
   3. Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

ڔ۪٢	יספט	ECI	NAME	. Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SM027-TBO	03
					SWMU			DRILLING (ft-bgs) 15.8		G.S. ELEV.640.304	
1	DOM	i TN	G FIRM	Pen	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
Į	DRI	I IN	G MFT	HOD	HSA to	5 ft. / Geoprobe	!	452 40000		START DATE 7/11/9	7
			BY					NORTHING 153.12622	·	FINISH DATE 7/11/9	
Į	1000	<u> </u>	D1					EASTING_1128.89549		I INION DATE	
	ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
ı						SM027TB03-0001	Gray, cru	shed stone aggregate (fill)	1888		
ı	1-			0-1	0			ne to coarse, angular gravel, clay, gments, little silt, few fine to	0.00		H
١	2-							and, damp (fill)	0 5 0		-2
									000		
	3-			1–3	57		Brown fi	ne to coarse sandy SILT, few	0 2 0		-3
	4-					SM027TB03-0305	clay, dan				-4
	7				ļ	51.1027 1200 0000			<u>   </u>		
ı	5-	\ - <i>\</i>		3-5	236		Light bro	wn, silty CLAY, few fine sand,			-5
	6-	N /		ļ		SM027TB03-0507	damp (C			SM27TB03-0507 collected from 5.6	-6
		W			ļ	SH027 1200 0001				to 7.6 ft.	
	7-	X		,	•						-7
	\ / <b>8-</b>	$ \Lambda $				1					<b> </b>
ألمجت	ľ	/ N						rown, fine to coarse sandy SILT, ingular gravel, trace clay (ML)			
	9-		90		>1999			layey SILT, few fine sand, trace			9
	10-	N /						rel, moist (ML)			-10
	ľ	W	,								
	11-	ł X			,	<del></del>					-11
	12-	J۸	ļ	1		SM027TB03-1113					-12
	12	V \				3.4027 1.500 III.0					
	13-	$\leftarrow$	95		>1999		**				<b>⊣</b> 3
	14-	1\ /								SM27TB03-1315	-14
	'"	W				DU00777003 4345				collected from 13.8 to 15.8 ft.	
	15-	1 X			ŀ	SM027TB03-1315				10 15.6 11.	H5
	16-	JΛ						ne to medium SAND, few silt, wet		Water at 15.8 ft.	H6
	.~	<i>ا</i> ا		!			grading 1	to saturated (SP)			
	17-	$\vdash$	93		937						H7
	18-	1	1								H8
	"	IV			1						
	19-	X	ļ								H9
	20-	]/\									-20
_	20-	<b>/</b> /	50		276		Rottom o	of boring 21 ft			
`	21-			<u>i                                     </u>	2/0		DOLLOW C	77 Doring 21 Tt	<u>. 1:::::::1</u>		<del>-1-</del> 21
-	'; N	OTE	ວ.						_		

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

PROJ	PROJECT NAME Bayer Corp., New Martinsville, WV						WATER LEVELS	BORING SM027-TB02		
BORI	NG	LOCAT	ION_	SWMU	027		DRILLING (ft-bgs)	G.S. ELEV.640.145		
					nia Drilling Co.		WELL LEVEL (ft-msi) NA		CASING ELEV. NA	
					5 ft. / Geoprobe	2	010 707 10		START DATE 7/11/	97
		BY_C					NORTHING 216.79749		FINISH DATE 7/11/	
LOGO	- 1	U1,		·, · ,	······································		EASTING_1164.11620		FINISH DATE 1711	-
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					SM027TB02-0001		ished stone aggregate (fill)	10000		
1,-			0-1	1400			ne to coarse sandy SILT, little ce fine gravel and crushed stone,			H
2-		,				damp (M				-2
_	İ									
3-			1-3	547			rown, fine to coarse sandy SILT,			<del> </del> -3
4-	1			i	SM027TB02-0305	little clay	/, trace fine gravel (ML)	<u> </u>		
			,							
5-	$\exists$		3-5	382			rown, silty, fine to coarse SAND,			-5
-6-	\ /I					little clay	, trace fine gravel (SM)		SM27TB02-0507	-6
	M								collected from 5.8	
7-	ΧI				SM027TB02-0507			:=	to 7.8 ft.	-7
8-	М		,							
۰	/ \									-8 🗨
9-{		80	i	489	}	No roceu				9
10-	\ /					acetate	ery; trace of silt and sand on liner, wet			
ן יי	V١									-10
.11	XI									<b>-1</b> 1
	М	ļ								,
12-	/ \									<del>-1</del> 2
13-	_	0		0	_			<u> </u>		<b>⊣</b> 3
	\ /\					no recov	ery; trace of silt and sand on liner, wet			1
14-	VI									-14
15-	XI	1								-15
	М				i	•				
16-	/ \									<del> 1</del> 6
17-	_	0		0	ļ.					<b>-17</b>
Λ	ι /					Brown, fir	ne SAND, little silt, saturated (SP)			
18-	$\backslash /  $								•	<b>⊣</b> 8
19-	γſ				·					H9
~	ΛΙ					Brown, fir	ne to medium SAND, few silt,			"
20-	$/ \parallel$					saturated				-20
21		65		0		Bottom o	f boring 21 ft		4	
	TES									~ ~ !

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes

- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

Î DDO	ובכיו	- NAME	· Bav	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SM027-TB0	1
				SWMU			DRILLING (ft-bgs) 18.6		G.S. ELEV.640.082_	
BOR	ING	LUCAI	IUN_ Per	neviva	nia Drilling Co.		WELL LEVEL (ft-msi) NA		CASING ELEV. NA	
DRIL	LIN	G FIRM	1 101	UCA to	E # / Gooprobe	<del></del>			START DATE 7/11/9	7
					5 ft. / Geoprobe	·	NORTHING 57.03930			
LOG	GED	BY_G	. Werk	man_			EASTING 1036.89870		FINISH DATE 7/11/9	
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	-	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
-	-	R )	₹ □			Gray-br	own, crushed stone aggregate,	V-0	<del></del>	$\vdash$
,_	}		0-1	0	SM027TB01-0001	fine to c	coarse sandy silt, trace clay, damp			1
1 '				•	ļ <u></u>	(fill)	ing to compare conduction in the			
2-	┨				1		ine to coarse sandy SILT, little ace fine, subangular gravel, damp			-2
3-			1-3	0		(ML-SM)	)			-3
1										
4-	1				SM027TB01-0305			1-:-		Γ*
5-	ļ		3~5	0					, ,	-5
	N /							1-:4		-6
6-	1\/		!				•			L,
7-	1 1			ļ						-7
										<b>B</b>
8- 1	1/ \									
9-	{_	10	ł	0		Danie e	clayey, fine to coarse SAND, few			9
	1	1					e fine, subangular gravel, moist			-10
10-	1\/				1	(SC)				"
11-	1 X						·			-11
۱.,	lΛ									H2
12-	7/ \	\ .								-
13-	╂	85		0						H3
1.,	$\Lambda$	/		Į						H4
14-	11/	· ·								
15·	$+\chi$						fine to coarse sandy CLAY, few silt, ne gravel, damp (SC)			H5
	$\Lambda$					ļi Ooo iii				H6
16	۱ ۱	V	1			-	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		SM27TB01-1618	
17-	+	100		0	SM027TB01-1618		fine to medium SAND, few silt, trace prounded, gravel (SM)		collected from 16.6	H7
18	_\\_	/[	1				. •		to 18.6.	-18
'6'	1\/								Water at 18.6 ft.	
19	$+$ $\chi$									H9
20	]/\									-20
رًا "	\ \ \ \ \	100		0		Bottom	of boring 21 ft			
21			1							21
	OTE	:o:				امسلمت ممان	E ft-has-feet below around surf	ace		

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface6. ft-msl-feet above mean sea level

			- Bay	er Cor	p., New Martinsvi	lle WV	WATER LEVELS		BORING SM026-TE	302
						iic, w	DRILLING (ft-bgs) 12.4		— G.S. ELEV.639.588	
BORI	NG.	LOCAT	IUN_ Per	SWMU	nia Drilling Co.		WELL LEVEL (ft-msi) NA		CASING ELEV. NA	
					5 ft. / Geoprob				START DATE 7/9/	
					- 0 14. 7 GCGP105		NORTHING -362.30278			
LOGG	ED	BY_G	. WEIN	illan			EASTING 1600.83052		FINISH DATE 7/9.	-
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS.	ОЕРТН
1-			0-1	0	SM026TB02-0001		own, crushed stone aggregate, barse sandy silt, trace clay, damp	1000		-4
2-							ayey, fine to coarse SAND, few stone and silt, trace gravel, damp			-2
3-			1-3	0		1	rown, fine to coarse sandy CLAY,			-3
4-					SM026TB02-0305		gravel, subangular sandstone and			-4
5-	<u> </u>		3-5	0						-5
6-	$\bigvee$						ne to coarse sandy CLAY, fine race silt, very moist (CL)			-6
7-	X									-7
8-	Λ		   							81.
9-		50		0						9
10-	$\setminus /$									10
11-	X									-11
12-	$\bigwedge$				SM026TB02-1112					12
13-		45		0					Water at 12.4 ft.	-13
14-	\									14
15-	V									<del>-1</del> 5
16-	$\backslash \backslash$						y-brown, clayey, fine to coarse ace silt, wet (SC)			<del>-1</del> 6
17-		53		0		Dark ora	y, clayey SILT, trace fine sand,	(////		<del>-1</del> 7
18-	\ /					wet (ML				-18
19-	V									-19
										-20
20-	$\backslash \setminus$	70		0		Bottom o	of boring 21 ft			
21-	DTE:	<del></del>	نـــــــــــــــــــــــــــــــــــــ	<u> </u>	·I.			V/////		2

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

3 130	コルドウン	TNAME	Bay	er Cor	p., New Martinsvi	lle, WV	WATER LEVELS		BORING SM026-TE	101
√a∩ı		LOCAT					DRILLING (ft-bgs) 8.3		G.S. ELEV.639.435	
					nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
יםם	ILLIN	IC METI	۱ <del></del> ۱۸۲	HSA to	5 ft. / Geoprob	e .			START DATE 7/9/9	1
		BY					NORTHING -362.04533		FINISH DATE 7/9/	
LOC	JGED	BY	. WOIN	mon.		· · · · · · · · · · · · · · · · · · ·	EASTING_1570.96069		FINISH DATE 7737	<del>-</del>
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			0-1	0	SM026TB01-0001		shed stone aggregate, fine to andy silt, trace clay, damp (fill)	/	*	  -1
2	-   -  -		1–3	0		fine, suba crushed s Brown, cl	ayey, fine to coarse SAND, few angular, sandstone gravel, trace stone and silt, damp (SC) ayey, fine to coarse SAND, few			-N -13
5			3-5	0	SM026TB01-0305	damp (S	angular, sandstone gravel, silty, C)			4 5
6					SM026TB01-0608					-6 -7
9	٧ ١	65		0					Water at 8.3 ft.	-8 -9
10	I۷								·	-10 -11
12	1/\			ļ						12
13 14	1	43		0			y, clayey silt, few fine sand, trace counded gravel, wet (ML-CL)			-13 -14
15	IV									<b>-1</b> 5
16	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	100		0		Nark oraș	y, clayey silt, few fine sand			⊣6 ⊣7
18	1					(ML-CL)	, clayey siit, lew lille salid			-18
19 20	1/\									-19 20
21	1	75	<u> </u>			Bottom o	f boring 21 ft	1///	<del></del>	$\perp_{21}$

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRO	JEC.	T NAMI	- Bạ	yer Cor	p., New Martinsvill	le, WV	WATER LEVELS	BORING SMU25-1801		
				SWMU			DRILLING (ft-bgs) 19.8		G.S. ELEV.639.785	
					nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	•
					5 ft. / Geoprobe	•	74.0407		START DATE 7/8/	97
		BY					NORTHING -711.84237	<del>_</del>	FINISH DATE 7/8	
				т —			EASTING 1339.64653	+	I INION DATE	$\overline{}$
нтаао	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			0-1	0	SM025TB01-0001		own, crushed stone aggregate, oarse sandy silt, damp (fill)	100		
1			0-1	U		THIC TO C	odrac adridy sirt, ddinb (fill)	40		
2-		<u> </u> 			<u> </u>	<del> </del>				-2
3-			1-3	0			ne to coarse sandy CLAY, fine			-3
4-					SM025TB01-0305	sandstor	ne gravel, damp (CL)			-4
5			3-5	0		Same as	above, trace silt			-5
	N /	1								
6-	V									6
7-	X									-7
8-	$\  / \ $									-8
9-		63		0					•	9 1
10-	N /									HO .
	V									
t1 <b>-</b>	lΛ						ne to medium sandy CLAY, few silt, e gravel, moist (CL)			H11 ·
12-	$/ \setminus$	;					9. a.o.,			-12
13-	(-)	75		0		Gray-bro	own, fine to medium sandy CLAY,			<del>-1</del> 3
14-	$\backslash /$					few silt,	very moist (CL)			-14
15-	Įγ									-15
	$\left  \right $									1 1
16-	$/\setminus$				:					<b>⊣</b> 6
17-	$ \Box $	70		3		Light gra	ay, CLAY, trace fine sand, high			-17
18-	$\setminus /$				SM025TB01-1719	plasticity	, wet (CH)		•	<del>-1</del> 8
19-	X				01102012011110					<del>-1</del> 9
20-	$/\!\!\setminus$								Water at 19.8 ft.	-20
21-	igsqcup	75		315	<u> </u>	Brown fi	ne to medium SAND, few silt, (SM)			-21
ĺ	\ /					Di Onii, II	TO TO MCCIUM DAND, 16# SILL, (OM)			
22-	$ \bigvee $									-22
23-	X			1000						-23
24-	//			>1999						-24
25		100	<u></u>	117		Bottom o	f boring 25 ft			⊥ <sub>2€</sub> ′"
NO	NOTES:								·	1

- 1. Depths and Elevations in feet unless otherwise noted
- 2. USCS Classification based on visual-manual procedures 3. Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

PPC	UECI	T NIAME	- Ba	ver Cor	rp., New Martinsvill	e, WV	WATER LEVELS		BORING SM024-TE	302
				SWMU			DRILLING (ft-bgs) 18		-G.S. ELEV.640.216	
I BUF	11NG	LUCAI	10N_ Per	nevlva	nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
DRI	LLIN	G FIRM	1	HCA +	5 ft / Geoprobe	<del></del>			START DATE 7/3/	
					5 ft. / Geoprobe	·	NORTHING -662.65115			
LOG	GED	BY_G	j. Werk	man			EASTING 1129.93495		FINISH DATE 7/3	/91
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			0-1	0	SM024TB02-0001	fine to c	own, crushed stone aggregate, oarse sandy CLAY, trace fine, gravel, trace silt, damp (fill)			
2	-					Brown, cl very mois	layey, gravelly SAND, trace silt, st (SW)	0. 0.		-2
3			1-3	0	SM024TB02-0305			0 0		3 4
5			3-5	0	SI-1024 1 BUZ-0305	Droup ~	ray, clayey, fine to coarse SAND,	0. 0.		-5
6	-					few silt,	trace fine gravel, damp (SC)			6
<u> </u>	$\frac{1}{2}$						y, clayey, fine to coarse SAND, trace fine gravel, damp (SC)			-7 -8
8	<i>ا</i> ا	90		0						9
10	1	1								-10
11	$\dashv \chi$					Brown-g	ray, clayey, fine to coarse SAND,			-11
12	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	90		0		few silt, (SC)	trace fine to medium gravel, moist			H2 H3
13	1									H4
15	-17									-15
16	; <del> </del> /\									-16
17	1	95		0	SM024TB02-1618	Brown, f	ine to medium SAND, few silt		11-1-1-1-10-2	H7 H8
18	١V								Water at 18 ft.	   <del> </del> 19
20	A									-20
1 2	<u>, L</u>	100	<u>L.</u> .			Bottom	of boring 21 ft			
. –	NOTE	S:	nd Ele	vations	in feet unless otherw	vice noted	5. ft-bas-feet below ground su	ırface		

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes

- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

Page 1 of 1

ODO IE	CT NAM	- Bay	ver Cor	rp., New Martinsvil	lle. WV	WATER LEVELS		BORING SM024-TI	B01
	G LOCA					DRILLING (ft-bgs) 17.0		G.S. ELEV. <u>640.528</u>	
				nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	4
				5 ft. / Geoprobe	3		<del> </del>	START DATE 7/3/	<b>′</b> 97
	:D BY					NORTHING -661.65948		FINISH DATE 7/3	
				<u> </u>		EASTING_1094.51372	<del></del>	I INIGH DATE	<del></del>
DEPTH	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
1		0-1	0	SM024TB01-0001		wn, crushed stone aggregate, parse sandy silt, damp (fill)	1000		-1
2-						<del></del>	24		-2
		1-3	0			wn, fine to coarse sandy CLAY, to coarse gravel, trace silt, damp			-3
3-					(CL)				١
4-				SM024TB01-0305		N THE ME			-4
5-	-	3-5	0						-5
6-	1					y-green, clayey, fine to coarse			-6
	/				SAND, tra (SC)	ace fine gravel and silt, damp			İ
7-	(			1		y, silty, fine SAND, trace clay and			7
8-/	\					atter (SM)		,	-8
9 ↓	93		0						L <sub>9</sub>
1	1								
10-	/  ·								<del> </del> 10
11-	(				Dark grav	y, silty CLAY, few fine to medium			<del> </del> 11
12-/	$\setminus$					np (CL-ML)			H2
	55		7.2						
13	7 33		'		-	wn, fine to coarse sandy CLAY,			13
14-\	/				trace fin	e gravel, trace silt, damp (CL)		•	<del> </del> 14
15-	/								<del> </del> 15
l 1/	\								100
16-/	$\setminus$			SM024TB01-1517					H6
17-	100		.0					Water at 17 ft.	-17
18-	/								H8
\	/				×				
19-	$\backslash \rfloor$				Drown #	ne to medium SAND few silt trace	:::::::::		H9
20-/	\				clay (SW	ne to medium SAND, few silt, trace )			20
21	83	L	0		Bottom o	f boring 21 ft	(A.V.)	·	
NOT		=1		n feet unless otherw		5 ft-has-feet below around sur			

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

PROJECT NAME Bayer Corp., New Martinsville, WV							WATER LEVELS		BORING SM023-TB	02
i				SWMU			DRILLING (ft-bgs) 18.3		G.S. ELEV.640.329	
					nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
					5 ft. / Geoprobe	!		<del></del>	START DATE 7/10/	
		BY_G			:		NORTHING -116.36376		FINISH DATE 7/10.	
100	650	DI			<del>-</del> .		EASTING_1061.35313	<del></del> -	FINISH DATE	<u> </u>
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
						Concrete				
1-	1				SM023TB02-0102	Brown, Cl	LAY, with fine to coarse sand and	0 0		
2-	-		0-2	0	31102311102 0102	fine to co	oarse gravel, (sandstone and ew silt, moist (CL)	D		-2
	shale), fo					snale), te	ew sut, moist (CL)	0. 0.		-3
"								0.0.		
4-	1				SM023TB02-0305			D. D.		4
5-	-							D 0.		-5
6-			3-6	0			· ·	0_0		-6
	N /				!			0.0		-7
7-	1V							0.0		Γ΄
8-	1 X							0 0		<del>-8</del>
	<b>!/</b> \							0 0		9
10-	/_\	55		0	}	Dark gra	y, silty CLAY, trace fine sand,			40
10-					. 1	damp (C				
11-	1\/				. !					H1
12-	<b>1</b> X				•					-12
13-	1/						nd gray, fine to coarse sandy			-13
	V	88		0			w silt, trace fine gravel, rown mottles, damp (CL)			1
14-	1				]	-	,			H4
15-	$\mathbb{N}$									<del>-1</del> 5
16-	1 /									<del>1</del> 6
17-	]/\				SM023TB02-1618	Brown, sa	andy SILT, fine to medium sand,	(///)		<b>⊢</b> 47
"	V	ر ا			3.40201802 1010		ay, moist (ML)			
18-	\	58		0		Brown, fi	ne to medium SAND, trace silt,		Water at 18.3 ft.	H8
19-	{\ /					(SW)				19
20-	] <b>Y</b>									-20
	1/\	1								<b>\</b> .
21-	1/\					De44	of having 20 ft			<del> -</del> 21
22-		10.0	<u> </u>	0	1,	BOLLOW 0	f boring 22 ft	1/20/201		
- [ N	OTE		d Floy	ations i	n foot unless otherw	ice noted	5 ft-has-feet below around six	rface		

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

PROJECT NAME Bayer Corp., New Martinsville, WV							WATER LEVELS		BORING SM023-TB	101 I
				SWMU	•		DRILLING (ft-bgs) 5.0, 18		G.S. ELEV. <u>640.435</u>	
					nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
					5 ft. / Geoprob	е	107.70.445		START DATE 7/10/	97
		BY_					NORTHING -167.78415	<del></del>	FINISH DATE 7/10	
	T		-				EASTING 1061.08066		I INIGH DATE	
ВЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
						Concrete				
1-	1				SM023TB01-0102	Brown, Cl	AY, with fine to coarse sand and	0 0		F
.2-	1	ŀ	0-2	0.		fine to co moist (Cl	parse, subangular gravel, few silt, _)	D O.		-2
3-						moist (CL)				-3
4-	┨				SM023TB01-0305			D 0		4
5-	┨							0.0	Water at 5 ft.	-5
6-		ļ.	3-6	0				0.0		-6
7-	$\Lambda$ /	1					ne to coarse SAND, little silt, e gravel and clay, saturated (SM)			-7 <b> </b>
8-	] [	i					<b>.</b>			-8
	۱۸			-						
9-	<b>/</b> / \						<del></del>			9 .
10-		35		0		Brown, cl silt, moist	ayey, fine to medium SAND, few (SC)			<b>⊣</b> C .
11-	1\/					H	ne to coarse sandy CLAY, little			-11
12-	ł X	ļ					angular gravel, few silt, moist (CL)			-12
13-	<del>/</del> /∖						own, clayey SILT, trace fine sand,			-13
14-		90	]	0		moist (M	CL)			<del> </del> 14
15-	Λ/	<b>′</b>							*	<b>-15</b>
16-	JV	ļ '								H6
1	l٨				0,400,770,4040					17
17-	<b>]</b> /	\			SM023TB01-1618					1 1
18-		55		0		Brown, fil	ne to medium sandy SILT, trace		Water at 18.3 ft.	-18
19-	<b>1</b> ∖/			ŀ		fine grav	el and clay, saturated (ML)			H9
20-	łχ						ne to coarse SAND, few silt, wet		3	-20
21-	/\					to satura	ted (SW)			-21
22-	<u> </u>	85		0						-22
23-	1/	4	]							-23
1	]∛									-24
24-	$]$ $\setminus$	_								
25-							f boring 26 ft			-25
	26 / 100   0   Bottom									2

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

PROJECT NAME Bayer Corp., New Martinsville, WV  BORING LOCATION SWMU 022  DRILLING FIRM Pennsylvania Drilling Co.  DRILLING METHOD HSA to 5 ft. / Geoprobe  LOGGED BY G. Werkman  H Bayer Corp., New Martinsville, WV  DRILLING (ft-bgs) 17.0  WELL LEVEL (ft-msl) NA  CASING ELEV  NORTHING -260.73331  EASTING 787.23211  FINISH DATE  ANALYTICAL SAMPLE  ID  MATERIAL DESCRIPTION  REMARKS	0.795 NA 7/17/97
DRILLING FIRM Pennsylvania Drilling Co.  DRILLING METHOD HSA to 5 ft. / Geoprobe  LOGGED BY G. Werkman  EASTING 787.23211  THE PROOF OF THE PENNSYLVANIA DRILLING METHOD HSA to 5 ft. / Geoprobe  NORTHING -260.73331  FINISH DATE  ANALYTICAL  REMARKS	7/17/97 7/17/97
DRILLING FIRM  DRILLING METHOD HSA to 5 ft. / Geoprobe  LOGGED BY G. Werkman  EASTING 787.23211  FINISH DATE  EASTING 787.23211	7/17/97
NORTHING -260.73331   FINISH DATE	7/17/97_
TE BO SE SEMARKS	
SYMBOL  SYMBOL  SYMBOL  WATERIAL DESCRIPTION  SYMBOL  WATERIAL DESCRIPTION  SYMBOL  WATERIAL DESCRIPTION  SYMBOL  REMARKS  MATERIAL DESCRIPTION  SYMBOL  REMARKS	ОЕРТН
SM022TB02-0001 Asphalt pavement	
Dark brown, fine, subrounded GRAVEL with fine to coarse sand, damp (fill)	
	-2
	-3
Brown, fine to coarse sandy CLAY, few silt,	٦
SM022TB02-0305 trace fine to medium gravel, wet (CL)	-4
3-5 0	-5
	6
_   7-  X   Standing wate	erin -7
acetate liner ft.	at 7.1   -8
	_ -9
	٦
10-\/ /	<b>-10</b>
	<b>-11</b>
	10
Dark gray, silty CLAY, little fine sand, trace fine gravel, very moist (CL)	H2
Brown-gray, fine to coarse sandy CLAY	<b>–13</b>
with fine to medium gravel, few silt,	<b>-1</b> 4
saturated (CL)	45
Brown, fine to coarse SAND, little silt, trace clay (SM-ML)	<del>  1</del> 5
16-//\   SM022TB02-1517	<del>-1</del> 6
17 75 0 Brown, fine to medium SAND, few silt, Water at 17 ft	_bas.  -17
saturated (SM)	, , , , , , , , , , , , , , , , , , ,
	<del>  1</del> 8
	-19
	20
Pottom of boring 21 ft	
NOTES:	<del></del>

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PROJ	ECI	T NAME	- Bay	yer Cor	p., New Martinsvi	lle, WV	WATER LEVELS		BORING SM022-TB	01	
				SWMU			DRILLING (ft-bgs) 18.0		— G.S. ELEV. <u>640.515</u>		
					nia Drilling Co.	, <del>, , , , , , , , , , , , , , , , , , </del>	WELL LEVEL (ft-msi) NA		- CASING ELEV. NA		
					5 ft. / Geoprob	e		<del></del>	START DATE 7/15/97		
			3. Werk				NORTHING -284.43052		FINISH DATE 7/15/97		
1000			· · · · ·				EASTING_709.59335	<del></del>	FINISH DATE		
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
						Concrete					
1-			0-1		SM022TB01-0102	Gray-bro	own, crushed stone aggregate,	004		4	
2-			· ]		3MU22   BU1-0102	fine to co	parse sandy SILT, trace clay,			-2	
3-			1-3	0		Brown, fir	ne to coarse sandy CLAY, few silt,			-3	
4-				}	SM022TB01-0305		e gravel damp. (CL)			-4	
5-										-5	
6-			3-6	0		Brown, fir	ne to medium GRAVEL with fine to			6	
7-	$\setminus /$		•				and, trace silt, damp (SW)	0.0		7	
8-	X							0.0		8	
9-	$/ \setminus$							000		9	
10-	-	30	i	0				000		10	
11-	$\setminus / \mid$							0.0		-11	
12-	X							0.0		H2	
13-	$/ \setminus$							0.0		<del>-1</del> 3	
14		23		0		Brown, cla	ayey, fine to medium SAND, few (SC)			14	
15-	$\backslash / \! \mid$					Brown, fir	ne to coarse SAND, little silt, wet			-15	
16-	.					(SW)				<del>1</del> 6	
17-	$\mathbb{N}$				SM022TB01-1618					<b>-17</b>	
18		100				Brown, fir	ne to medium SAND, few silt,		Water at 18.0 ft.	<del>-1</del> 8	
19-	$\setminus / \mid$		,			saturated				-19	
20-	XI									-20	
21-	/  vert					Rottom of	f boring 22 ft			-21	
22_	TES	90		0		DOLLOW O	DANING CE IL	ESS.		<u></u>	

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes

- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

**BORING LOG** 

 	2001	ECT	- NAME	. Bav	er Cor	p., New Martinsvil	le. WV	WATER LEVELS		BORING SM021-TB0	2
					SWMU (			DRILLING (ft-bgs) <u>N/A</u>	**	G.S. ELEV.640.930	
						nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/A	
						5 ft. / Geoprobe	2	00.07170	···	START DATE 7/10/	97
			BY_G					NORTHING80.27170 EASTING_1259.88650		FINISH DATE 7/10/97	
F								EASTING	T		<del>   </del>
	ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
ſ		-		0-1	-	SM021TB02-0001	Gray-bro (fill)	own, crushed stone aggregate	0. 0.		
	1-							ne to coarse SAND with fine to ravel, few silt, trace clay, damp	0 0		-2
1	2-						(fill)				
	3-			1-3	0			y, fine to coarse sandy SILT, e gravel, moist (ML)			-3
- [	4-					SM021TB02-0305					4
	5-			3-5	0		,				-5
1	6-	$\setminus$									-6
	7-	V		<u> </u> 							7
	8-	$/\!\!\setminus$	į			SM021TB02-0709	Yellow-b	rown, fine to medium sandy CLAY, el and silt, damp (CL)			-8
İ	9-		80		198		Gray, cla	yey SILT, trace fine sand, moist			9:.
	10-	$\mathbb{N}$					(ML)	*			-10
	11-	X									<b>-11</b>
	12-	$\  / \ $				SM021TB02-1113					-12
١	13-		58		338		Same as	above, brown .			-13
l	14-	$\mathbb{N}$									-14
	15-	X								Water at 15.2 ft.	<del>  1</del> 5
	16-	$   \rangle  $									<b>⊣</b> 6
	17-		45		167		Same as	above, dark gray			<del>-1</del> 7
	18-	$\mathbb{N}$									-18
	19-	X				SM021TB02-1820					<del>-1</del> 9
	20-	$/\!/$			202			n to med. SAND, few silt, wet (SM)		Water at 20.3 ft.	-20
	. 21- N	L_ OTE:	<u> 63</u> S:	<u> </u>	223_	<u> </u>	Bottom_c	of boring 21 ft	<u> </u>		-1-21

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

Page 1 of 1

PRO	JEC	T NAME	- Bay	yer Cor	p., New Martinsvil	lle, WV	WATER LEVELS		BORING SM021-TB	01
				SWMU	•		DRILLING (ft-bgs) 12.6, 20.3		-G.S. ELEV.640.010	
					nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
					5 ft. / Geoprobe	2	00.17880	. , .	START DATE 7/10/	97_
LOG	GED	BY_	3. Werk	man		·	NORTHING99.17889 EASTING_1235.81861		FINISH DATE 7/10	/97
	_	1		-	1		EASTING IZONO			$\overline{}$
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	-				SM021TB01-0001	Gray, cru	shed stone aggregate (fill)	0.0		
1-			0-1			Brown, gr damp (fil	ravelly sand, little clay and silt,	0.0		H
2-					<u> </u>	· · · · · · · · · · · · · · · · · · ·	<del></del>	0.0		-2
			1-3	0		Dark gray damp (Ci	y, silty CLAY, trace fine sand,			
3-			, 🐧				-			-3
4-					SM021TB01-0305					4
5-	_	]	3-5	0					9	-5
	N/	1								
6-	W									-6
7-	X									7
8-	$ /\rangle$									8 .
9-	( )	88		0	<u> </u>				e e	9
	N /	1					ne to coarse sandy CLAY, few edium, subangular gravel, trace			
10-	IV						grading to wet (CL)		ONOTTO A 1040	H0
11-	X								SM21TB01-1012 colleced from	-11
12-	$   \rangle$				SM021TB01~1012				10.6-12.6 ft.	12
	V	70		9.9					Water at 12.6 ft.	
13-	1			3.3			ayey, fine to coarse SAND, trace el, moist (SC)			H3
14-	/					gruv	,			14
15-	I X									15
16-	$   \rangle$									<del>-1</del> 6
Ī	$\setminus$	45		0		_				
17-	1					Same as	above, dark gray			H7
18-	$\mathbb{N}$									-18
19-	I X				SM021TB01-1820					H9
	$\left  \right  $						ne to medium SAND, few silt, moist			
20-	$/\setminus$			180			o wet <sup>,</sup> (SW)		Water at 20.3 ft.	20
21-	21 93 489 Bottom NOTES:						f boring 21 ft	1:		<del>-1</del> 21 (

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface6. ft-msl-feet above mean sea level

		T NIANE	. Bay	er Cor	p., New Martinsvill	e. WV	WATER LEVELS		BORING SM020-TBC	)2
				SWMU		<u>-,</u>	DRILLING (ft-bgs) 8.0, 20.8		G.S. ELEV.639.814	
	TING	LUCAI	IUN_ Pen	nsvlva	nia Drilling Co.	· <del></del>	WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
					5 ft. / Geoprobe				START DATE 7/10/9	97
					7 0 14. 7 000p1323		NORTHING -158.25558		FINISH DATE 7/10/	i i
LOC	3GED	BY_G	, MEIN	man			EASTING_1248.63514	<del></del>	FINISH DATE 17.07	<u> </u>
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM020TB02-0001		ushed stone aggregate (fill)	0000		
1	$\dashv$		0-1				ine to coarse sandy CLAY, little vel, few silt, moist (CL)			<b>H</b>
2	_			•	1	inc gra	ich fon out maior (out			-2
	Ì		1-3	0	]					-3
3	-		, 3	.						١. ا
4	-			÷	SM020TB02-0305					4
5	+-	•	3-5	0		~	•			-5
] 。	\	1								6
ľ	$\mathbb{N}$				i					
7	XF				SM020TB02-0608					<del>  7</del>
<u> </u>	A/A		1						Water at 8 ft.	-8
		60		0		C	ahawa Araga grayal			9
•		1				Same as	above, trace gravel			
10	<b>'</b>  /	<u>'</u>								10
1	ı-  X	1								-11
12	$\Lambda ackslash$		1							H2
"	۱ ا	_۔ ا								
13	+	25		0						H3
14	₁┤∖	/  .								14
1,0	<u>,                                    </u>									<b>-</b> 45
"	ΊN									
16	}- / \	$\setminus$								H6
17	<del>/</del>	10		0		Crov-br	own silty CLAY, fine sand, moist	777		<del> </del> 17
18	, /[,	A				(CL)	ONIT SILLY OLAT, THIC SOLIC, MOIST			<b>18</b>
"	[]								SM20TB02-1820	1,0
19	γľ		ŀ						collected from 18.8 to 20.8 ft.	H9
20	5 <del>-</del>  /∖	\l		1	SM020TB02-1820					-20
,	1	100		158		→ Brown S	AND, few silt, wet (SM)		Water at 20.8 ft.	-21
٦,	•						of boring 21 ft	~  ·		
22	NOTE	 :S:	<u> </u>	-	, t	<del>,</del>	5 ft-has-feet below around s			-1-22

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

					Na Masiliaa	I- UV	WATER LEVELS		BORING SM020-TE	301
					p., New Martinsvill	ie, wv	DRILLING (ft-bgs) 19.4		— G.S. ELEV.639.914	
				SWMU		<del></del>	WELL LEVEL (ft-msi) NA		4	
					nia Drilling Co.	<del></del>			CASING ELEV. NA	
					5 ft. / Geoprobe	2	NORTHING -177.48137		START DATE 7/10	/97
LOG	GED	BY(	3. Werk	man			EASTING_1206.42541	FINISH DATE 7/10	/97	
	1	1	l		1					Τ.
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	9	받으	A P	至						
					SM020TB01-0001	\	shed stone aggregate (fill)	0 0		
1-	ł		0-1	0			ne to coarse SAND with fine to ravel, few silt and and clay, moist	0. 0.		H
2-						_ (fill)	raver, rew sirt and and clay, moist	0 0	•	_2
2		•			1	Dark gray	y, silty CLAY, trace fine sand,			-
3-	-		1-3	0		damp (CI				-3
					SM020TB01-0305				,	
4-		<u>'</u>			SM0201B01-0305					
5-			3-5	0						-5
_	N /									
6-	1\/	Ì					•			16
7-	I Y									7
	I۸									
8-	// \					Yellow-h	rown, clayey SILT, trace fine			₩
9-		100		0		sand, moi				L <sub>9</sub>
	N /	1								
10-	N/					Gray, silt	y CLAY, trace fine sand, damp			10
45_	IV.					(CL)				41
11	۱۸						ne to medium sandy CLAY, few silt,			Γ"
12-	١/ /		!			yellow-bi	own mottles, damp (CL)			<del>-1</del> 2
	/ \	100		0						,_
13-	1	100								13
14-	N /	{								-14
	IV									
15-	ΙX									<b>⊢</b> 45
16-	$ /\rangle$									<b>-16</b>
	/ <b>/</b>				<del> </del>	Dark oraș	/, silty CLAY, trace fine sand,	7777		
17-		100		0		moist (Cl				<del> 1</del> 7
18-	N /	į					•			18
10	V		,		SM020TB01-1819					"
19-	X									-19
						Brown, fir	ne to medium SAND, few silt, (SM)		Water at 19.4 ft.	100
20-	// \						•			<del>-</del> 20
21-	<u> </u>	95		0		Bottom o	f boring 21 ft	[48.81		

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes

- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

**BORING LOG** 

							WATER LEVELS		BORING SM019-TB0	4
					p., New Martinsvil	le, WV	WATER LEVELS		1	
				SWMU			DRILLING (ft-bgs) 6.0, 20.5 _ WELL LEVEL (ft-msl) NA		G.S. ELEV. <u>640.261</u>	
DRIL	LIN	G FIRM	<u> Per</u>	nsylva	nia Drilling Co.		WELL LEVEL (IT-MSI)		CASING ELEV. NA	
DRIL	LIN	G MET	HOD	HSA to	5 ft. / Geoprobe	2	NORTHING -1367.68866		START DATE 7/2/97	
		BY_G					EASTING_1415.66723	FINISH DATE 7/2/9	7	
-							EASTING	1		I
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM019TB04-0001	Asphalt	pavement .	V-0		1
1-			0-1	0			ushed stone aggregate, fine to andy silt, damp (fill)	~~\sqr		H
						coarse s	andy sirt, dailip (fili)	00		-2
2-							ine to coarse sandy CLAY, fine			-
3-			1–3	0		gravel, f	ew silt, damp (fill)			-3
_ ا					SM019TB04-0305					4
4-					340191 004 0000					
5-			3-5	0						-5
	\ /				SM019TB04-0506				Mater of O.St	-6
6-	1\/					Black, T	DI residue (fill)	××	Water at 6 ft.	
7-	ĮΧ.			<b>.</b>				××	47	-7
N .	lΛ							×××		-8
, 8- 1	1/\				1		ay, fine to coarse sandy CLAY, few		٠	١
9-		100		0			e fine gravel (CL)		-	9
١	N /					Brown, f very moi	ine to medium sandy CLAY, few silt,			10
10-	1\/					VEI Y HIOI	St (CL)			"
11-	Į X						•			<del>  1</del> 1
	I۸									L
12-	1/\									<del> 1</del> 2
13-	<u> </u>	100		0						Нз
1	1	1								1
14-	1\/									H4
15-	1 1									<b>-1</b> 5
	I۸									1,6
16-	1/\			ł						H6
17-		100		0						-17
ł	1	1								
18-	<b>1</b> \/			1					SM019TB04-1820	H8
19-	<b>↓</b> ¥	1							collected from 18.5 to 20.5 ft.	-19
"	1/				SM019TB04-1820		ine to medium SAND, few silt, trace			
20-	∜ \					clay (S	M)			-20
\ <sub>21</sub> -	1	45		0		Bottom	of boring 21 ft		Water at 20.5 ft.	<u></u>
	OTE	S:					E 44 has foot below around our			

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

Page 1 of 1

### **BORING LOG**

PRO	JËC.	T NAME	- Ba	yer Cor	p., New Martinsvi	le, WV	WATER LEVELS	BORING SM019-TE	<u> 803</u> , "	
				SWMU			DRILLING (ft-bgs) 19.0	—G.S. ELEV. <u>640.197</u>		
					nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
					5 ft. / Geoprobe	======================================			START DATE 7/2	
		BY_			<u></u>		NORTHING -1365.26861		FINISH DATE 7/2/97	
1000	טבט	D1		1		<del></del>	EASTING_1281.78108	<del></del>	FINISH DATE 172	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM019TB03-0001	Asphalt p	pavement	12-0		
1-			0-1	0			shed stone aggregate, fine to	704		H
2-						Codise Si	andy silt, trace clay, damp (fill)	00		-2
								6		72
3-	ļ					Croon fir	ne to coarse sandy SILT, few fine			-3
4-					SM019TB03-0305		gravel and clay, damp (ML)			
7					340191 003 0303					
5-		1	3-5	237		Vollow-b	rown, clayey, fine to coarse			-5
6-	N /						w silt, trace fine to medium gravel			-6
0-	W.					and silty	shale (SC)			ľ
7-	IX.	}		,			•			-7
	IΛ	,	·		SM019TB03-0709					ا ا
8-	// \									*
9		50		623	<u> </u>					9
	N /								•	
10-	IV/									<b>⊣</b> 0
11-	l X									-11
	$ \Lambda $									
12-	$V \setminus$	}								-12
13-		38		0						-13
	\ /			<u> </u>						1
14-	V									H4
15-	X									<b>⊣</b> 5
	$ \Lambda $									
16-	$/ \Lambda$					Brown, fin	ne to coarse sandy CLAY, few silt,			H6
17-		30		0		very mois				-17
	\ /									
18-	$  \backslash  $				SM019TB03-1719					<del>-1</del> 8
19-						Brown, fin clay, (SW	ne to medium SAND, few silt, trace		Water at 19.0	H9
	$ \Lambda $					J.2, 1011	•		ft-bgs.	
20-	$  \cdot  $								-	-20
21_	21 80 0 Bottom						f boring 21 ft			<u></u>
	TES	3:								(

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

Page 1 of 1

PROJECT NAME Bayer Corp., New Martinsville, WV							WATER LEVELS		BORING SM019-TB0	2
				SWMU			DRILLING (ft-bgs) 13.0, 18.0		— G.S. ELEV	
DRTI	LTN	IG FIRM	<sub>4</sub> Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl)	<del></del>	CASING ELEV	
DRI	I TN	IG MET	HOD	HSA to	5 ft. / Geoprobe				START DATE 6/26/	97_
		BY					NORTHING Not Surveyed		FINISH DATE 6/26	
LUG	טבט	D1	1				EASTING	<del></del>	FINISH DATE STORY	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM019TB02-0001	Asphalt	pavement			
1-			0-1	1			own, clayey, fine to coarse SAND,			H
2-						iew ilite	gravel, trace silt, damp (fill)			-2
-										]
. 3~			1-3	0						-3
4-					SM0.19TB02-0305					-4
	İ									_
5-		1	3-5	0						-5
6-	N /	1								-6
ľ	W						•			
7-	łΧ									<del>  7</del>
. 8-	$1/\Lambda$	1				Plack Ti	OI residue		Sewage/sulfur odor	-8
Ī	<i>ا</i> ا	V			<u> </u>			<u> </u>	from 8.9 to 15.4 ft.	1.
9-		60		0	,	Dark gra trace sil	ay, clayey, fine to medium SAND,			P
10-	1\ /	1				trace su	(30)			-10
	IV		ч	l		Same as	above, gray slag fragments			
11-	1 X	1								-11
12-	1/\		]		SM019TB02-1113					12
	٧V	٦.								
13-		35		0					Water at 13 ft.	<del>  1</del> 3
14-	<i>\                                    </i>	1								14
	W									
15-	IX	1				Proup o	clayey, fine to medium SAND, few			H5
16-	١/\		-	1		silt, mois				<b>⊣</b> 6
ļ	<i>ا</i> ا	٠,,	ŀ							1_
17-		100		0	SM019TB02-1618		ine to medium sandy CLAY, few silt,			H7
18-	1\ /	/[				trace fil	ne gravel, wet (CL)		Water at 18 ft.	H8
	W									
19-	1 1				.					<del> 1</del> 9
20-	1/\		ļ							20
l	<b>ا</b> ا	76		<1		Bottom	of boring 21 ft			
1 21-	OTE	1	<u></u>		<del> </del>					<del>-1 -</del> 21

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PROJECT NAME Bayer Corp., New Martinsville, WV							WATER LEVELS	BORING SM019-TB01		
				SWMU			DRILLING (ft-bgs) 16	G.S. ELEV 636.839		
					nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
					5 ft. / Geoprobe	e .			START DATE 7/2/97	
		BY_G					NORTHING -1429.47752		FINISH DATE 7/2/	
LUGG	עפֿיי				· · · · · · · · · · · · · · · · · · ·		EASTING_1164.73448		FINISH DATE 1727	<del></del>
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					SM019TB01-0001		pavement	10-0		
1-			0-1	0			y crushed stone aggregate, fine e sandy silt, wet (fill)	1 0 A		H
								0		
2-	2-							0-0-		-2
	ł		1-3	0	ļ	Brown, c	layey, fine to coarse SAND, fine		•	-3
3-							e, sub—angular to angular gravel, wet (SC)			Γ
4-					SM019TB01-0305	TON SILL	#Ct (30)			4
5-	5 0									5
	\ /\									
6-	M			!						6
7-	۷I		,							-7
']	Λ۱									1
8-	Ш								·	-8
	/ \						y, fine to coarse SAND and CLAY,			
9-	_	33		0		few silt,	trace fine, angular gravel (SC)			9
1	\ /									
10-	$\setminus / \mid$									<b>⊣</b> 0
	V									
11	$\Lambda$	•								-11
12-	$/\!\! \setminus \!\! \mid$									-12
, <u> </u>	$ \cdot $									
13-	$\dashv$	20		0					•	<b>-13</b>
l N	1									
14-	١/١				<del></del>					-14
	V									
15-	$ \mathbf{M} $				SM019TB01-1416	•			·	<b>⊣</b> 5
	$\mathbb{N}$									ميا
16-1/\									Water at 16 ft.	H6
17_	17 25 0 Bottom						f boring 17 ft		<u></u>	<u> </u>
••	NOTES:									

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

PROJECT NAME Bayer Corp., New Martinsville, WV							WATER LEVELS		BORING SM018-TB	<u> </u>
							DRILLING (ft-bgs) 20		G.S. ELEV.639.895	
BOR	NG	LOCA	10N_	SWMU (	oio Deillio - Co		WELL LEVEL (ft-msl) NA	<u></u>	CASING ELEV. NA	
DRIL	LIN	G FIRM	4. Per	insylvai	nia Drilling Co.				1	
DRIL	LIN	G MET	HOD_	HSA to	5 ft. / Geoprobe	<u> </u>	NORTHING791.26110		START DATE 7/1/9	<del>/</del>
LOGO	SED	BY_G	3. Werk	man			EASTING 919.20286		FINISH DATE 7/1/9	97
			1		· · · · · · · · · · · · · · · · · · ·		EASTING_010.20200	7		T -
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					SM018TB01-0001	Asphalt	pavement	10-0		
1_		]	0-1	0	38001001		ushed stone aggregate, fine to	**************************************		H
						coarse	sandy silt, damp (fill)			
2-					-	Brown, c	clayey, fine to coarse SAND, few			-2
3_			1-3	0		silt, trac	e fine gravel, damp (SC)			_3
	3-									
4-					SM018TB01-0305					-4
			3-5	0	[					-5
5-		1	3-5	"						ľ
6-	N /									-6
ľ	W				]					
7-	łX									-7
i	М		•							
. 8-	I/ \	d			ļ		o yellow-brown, fine to coarse			-8
9-		33		0		damp ((	LAY, trace fine gravel and silt,			-9
ľ	۱ ۱	A .	l			Julia (	<i>5</i> 2,			
10-	{\					Dark gra	ay, fine to coarse sandy CLAY, few			10
	IV		1				ce fine gravel (CL)			44
11-	1 1									<del>  1</del> 1
10-	M			l		0	abaua buara			12
12-	/ \	\ <sup> </sup>				same as	s above, brown		,	
13-	<u> </u>	43		0						<del>-1</del> 3
	Λ,	/	1							1
14-	1\/	]	-	1						H4
۱.,	I۷									H5
15-	۱٨									
16-	<i>\</i> / }									<b>⊣</b> 6
i	V '	V	ŀ							1_
17-	t	80		0.5						H7
	Λ,	/								-18
18-	1\/				·					"
19-	1 1				SM018TB01-1820					<b>-1</b> 9
	$\mathbb{N}$					Brown S	SAND, trace silt			
20-	۱/ /	\l							Water at 20 ft.	-20
1	1	70		0_	<u> </u>	Bottom	of boring 21 ft			
	21 70 0 Botton								"	٤,

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRO.I	FCT	NAME	Вау	er Cor	p., New Martinsville	e, WV	WATER LEVELS		BORING SM017-TBC	)2
				SWMU (			DRILLING (ft-bgs) NA		G.S. ELEV.639.594	
ונסט הנסטה	1 UVI.	E ETDM	Pen	nsvlva	nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
									START DATE 7/2/9	
		METI					NORTHING1100.31542			
LOGG	ED	BY_G	. werk	man		<del></del>	EASTING_862.93158		FINISH DATE 7/2/	97
	ш		٠.	<u>g</u>						
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppin)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			·			Asphalt	pavement			
			0-1	0	SM017TB02-0001		ushed stone aggregate, fine to sandy silt, trrace clay, moist (fill)	00000		
1								4999		-1
					·		ine to coarse sandy CLAY, few silt, ne gravel, moist (CL)			مر
2-			,		i					-2
			4 5	0						
3-			1-3	"						-3
4-					SM017TB02-0305		·			4
	*									
	·									
	1									
3-5 0 Botto						Bottom	of boring 5 ft			
5-	L		l	Ц				1		-15

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

**BORING LOG** 

DRILLING FIRM Pennsylvania Drilling Co.  DRILLING METHOD HSA  DRILLING (ft-bgs) NA G.S. ELEV.639.5  WELL LEVEL (ft-msl) NA CASING ELEV.  START DATE 7.		BORING SM017-TB		WATER LEVELS	o., New Martinsville, WV	JECT NAME Bayer Corp., New Martinsville, W								
DRILLING FIRM Pennsylvania Drilling Co.  DRILLING METHOD HSA LOGGED BY G. Werkman  Had all all all all all all all all all a		- G.S. ELEV. <u>639.590</u>												
DRILLING METHOD HSA LOGGED BY G. Merkman  THE BOOK OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROP		CASING ELEV. NA		WELL LEVEL (ft-msl) NA	nia Drilling Co.	ylvan	enn	M Per	G FIRN	LIN	DRIL			
TOGGED BY G. Werkman    NORTHING   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   1	7/2/97	START DATE 7/2/		1000 0650 <i>4</i>										
HEAD AND THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL		FINISH DATE 7/2		NORTHING 1000.00004										
Asphalt pavement  Gray, crushed stone aggregate, fine to coarse sandy silt, few clay, damp (fill)  Brown, fine to medium sandy CLAY, few silt, trace gravel, damp (CL)  SMOITTBOI-0305  SMOITTBOI-0305  Bottom of boring 5 ft				EASTING				T	<del></del>					
Asphalt pavement  Gray, crushed stone aggregate, fine to coarse sandy silt, few clay, damp (fill)  Brown, fine to medium sandy CLAY, few silt, trace gravel, damp (CL)  SMOITTBOI-0305  SMOITTBOI-0305  Bottom of boring 5 ft	ОЕРТН	REMARKS	SYMBOL	MATERIAL DESCRIPTION	SAMPLE	(mdd)		AUGER SAMP. DEPTH (FT.)	RECOVERY (percent)	GEOPROBE	ОЕРТН			
SMOI7TB0I-0305  SMOI7TB0I-0305  SMOITB0I-0305  SMOITB0I-0305  SMOITB0I-0305  SMOITB0I-0305  SMOITB0I-0305				pavement	Asphalt									
Brown, fine to medium sandy CLAY, few silt, trace gravel, damp (CL)  3-5 0 Bottom of boring 5 ft	14				· · · · · · · · · · · · · · · · · · ·		1	0-1			1-			
3-5 0 Bottom of boring 5 ft				fine to medium sandy CLAY, few silt,	Brown,	}								
2-				ravel, damp (CL)	trạce (	İ					*1			
3-5 0 Bottom of boring 5 ft	-2										<u> </u> 2-			
3-5 0 Bottom of boring 5 ft														
3-4- SM017TB01-0305 Bottom of boring 5 ft		•				0	3	1-3						
3-5 0 Bottom of boring 5 ft	-3									1	3-			
4-   SM017TB01-0305														
3-5 0 Bottom of boring 5 ft	-4				SM017TB01-0305						4-			
3-5 0 Bottom of boring 5 ft														
5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5			of boring 5 ft	Botton	0	5	3-5			 			

### NOTES:

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

BORING LOCATION	PROJECT NAME Bayer Corp., New Martinsville, WV							WATER LEVELS		BORING SM016-TB	01
DRILLING FIRM										1	
DRILLING METHOD	DOM	i TNI	SETEN	Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msi) NA			
COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   COUNTY   C							?		<u> </u>	START DATE 7/1/97	
Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard								NORTHING -777.95420			
Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)   Crushed stone aggregate (file)	1000				<del>, -, · · ·</del>	T		EASTING_1039.20246	<del>-</del>	PINISH DATE	
Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)   Crushed stone aggregate (fill)	ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	SAMPLE		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
## Brown, fine GRAVEL with fine to coarse sand, few silt and clay, damp (GW)    Sand, few silt and clay, damp (GW)   Solution of boring 21 ft						SM016TB01-0001			V. 7		
2- 3- 1-3 0	1-				,						
3-	2-										-2
SMOI8TBOI-0305  Same as above.  Same as above.  SMOI8TBOI-0709  SMOI8TBOI-0709  SMOI8TBOI-0709  Brown, clayey, fine to medium SAND, trace fine gravel and silt, damp (SM)  SMOI6TBOI-1517  SMOI6TBOI-1517  SMOI6TBOI-1517  SMOI6TBOI-1517  Brown, fine to medium SAND, trace silt, wet (SM)  SMOI6TBOI-1517  Brown, fine to medium SAND, trace silt, wet (SM)  SMOI6TBOI-1517  Brown, fine to medium SAND, trace silt, wet (SM)  Brown, fine to medium SAND, trace silt, wet (SM)  Brown, fine to medium SAND, trace silt, wet (SM)  Brown, fine to medium SAND, trace silt, wet (SM)  Brown, fine to medium SAND, trace silt, wet (SM)  Brown, fine to medium SAND, trace silt, wet (SM)  Brown, fine to medium SAND, trace silt, wet (SM)				1_3							
Same as above.  5 6- 7- 8- 33 10- 11- 11- 12- 13- 63 0.8  Brown, clayey, fine to medium SAND, trace fine gravel and silt, damp (SM) 14- 15- 16- 17- 18- 18- 18- 18- 18- 18- 18- 19- 20- 21- 100 231  SMOI6TB01-I820 Bottom of boring 21 ft  Water at 20 ft. 20- 21- 21- 21- 21- 21- 21- 21- 21- 21- 21	3-			-3	"		3. 2.	-, · · · · · · · · · · · · · · · · · · ·			l,
5	4-					SM016TB01-0305		1			4
8-	5-			3-5			Cama ac	ahova			-5
SMOI6TB01-0709   SMOI6TB01-0709   SMOI6TB01-0709   SMOI6TB01-0709   SMOI6TB01-0709   SMOI6TB01-0709   SMOI6TB01-1517   SMOI6TB01-1517   SMOI6TB01-1517   SMOI6TB01-1517   SMOI6TB01-1517   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOI6TB01-1820   SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMOIFF SMO	1 1	\		ļ 			Salle as	above.			
8-	6-	M								•	F <sup>6</sup>
9 33 1.7	7-	XI		İ							7
9 33 1.7	8					SM016TB01-0709					-8∜
10— 11— 12— 13— 63  0.8  Brown, clayey, fine to medium SAND, trace fine gravel and silt, damp (SM)  -14  15— 16— 17— 95  78.3  Brown, fine to medium SAND, trace silt, wet (SM)  -18  19— 20— 21— 100  231  Bottom of boring 21 ft	ľ	/ \	22							· ·	i i
11— 12— 13— 63	9-		33		1.7					Water at 9 ft.	
12- 63 0.8 Brown, clayey, fine to medium SAND, trace fine gravel and silt, damp (SM) -14 -15 -16 -17 -17 -18 -17 -18 -19 -100 231 Bottom of boring 21 ft -12 -13 -12 -13 -14 -15 -15 -16 -17 -19 -100 231 Bottom of boring 21 ft -12 -13 -14 -15 -15 -15 -16 -17 -18 -17 -18 -19 -19 -100 231 Bottom of boring 21 ft -12 -13 -14 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15	10-	M/I									10
12-   63   0.8   Brown, clayey, fine to medium SAND, trace fine gravel and silt, damp (SM)   -14   -15   -16   -17   -18   -17   -18   -19   -20   -21   -100   231   Bottom of boring 21 ft   -20   -21   -100   -21   -100   -21   -100   -12   -100   -12   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100   -100	1,,_	V									41
13	"	$ \Lambda $		ŀ							1
13	12-	$/ \mathbb{N}$	:	•							H2
fine gravel and silt, damp (SM)  -14  -15  -16  -17  -95  -78.3	13-		63		0.8		Brown, cl	ayey, fine to medium SAND, trace			<del>-1</del> 3
15-		\ /				<u> </u>					-14
15	'47	V									
16-	15-	X									H5
17 95 78.3 Brown, fine to medium SAND, trace silt, wet (SM) 18 19 20 Water at 20 ft. 20 Bottom of boring 21 ft	16-	$\Lambda$				SM016TB01-1517					-16
Brown, fine to medium SAND, trace silt, wet (SM)  SM016TB01-1820  Brown, fine to medium SAND, trace silt, wet (SM)  Water at 20 ft.	_	/ \	95		78.3						17
18- 19- 20- 21 SM016TB01-1820 SM016TB01-1820 Water at 20 ft20	"	" Brown,						ne to medium SAND, trace silt, wet			]" [
20-   Water at 20 ft.   -20	18-	$  \backslash  $					(SM)				<del> </del> 18
20-   Water at 20 ft.   -20	19-	V				SM016TB01-1820					H9
21 Bottom of boring 21 ft		$ \Lambda $			1						
21-1 00 1 231 1	Bottom of						Rottom o	f boring 21 ft		Water at 20 ft.	20
		21-1-1001						DOTTING 21 TE	<u> </u>		<u> </u>

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 Geoprobe samples marked with crossed boxes
 Auger samples marked with depth intervals

5. ft-bgs-feet below ground surface6. ft-msi-feet above mean sea level

Page 1 of 1

PROJECT NAME Bayer Corp., New Martinsville, WV BORING LOCATION SWMU 015  DRILLING FIRM Pennsylvania Drilling Co.  DRILLING METHOD HSA to 5 ft. / Geoprobe LOGGED BY G. Werkman  H B B B B B B B B B B B B B B B B B B
DRILLING FIRM Pennsylvania Drilling Co.  DRILLING METHOD HSA to 5 ft. / Geoprobe  LOGGED BY G. Werkman  ANALYTICAL SAMPLE ID  MATERIAL DESCRIPTION  MATERIAL DESCRIPTION  Dark gray, clayey, fine to coarse SAND, few fine to medium gravel, silt, wet (SC)  Dark gray, clayey, fine to coarse SAND, few fine to medium gravel, silt, wet (SC)  CASING ELEV. NA  START DATE 6/27/97  FINISH DATE 6/27/97  REMARKS  TART DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  FINISH
DRILLING FIRM  DRILLING METHOD  HSA to 5 ft. / Geoprobe  LOGGED BY  G. Werkman  HSA to 5 ft. / Geoprobe  NORTHING -1023.04132 EASTING 1371.13365  FINISH DATE 6/27/97  FINISH DATE 6/27/97  REMARKS  HSA  SMOISTB04-0001  Fine to coarse SAND with fine to medium gravel, trace silt and clay, damp (SW)  Dark gray, clayey, fine to coarse SAND, few fine to medium gravel, silt, wet (SC)  SMOISTB04-0508  SMOISTB04-0508  START DATE 6/27/97  FINISH DATE 6/27/97  FINISH DATE 6/27/97  REMARKS  HSA  Water at 3 ft.  SMOISTB04-0508
HANALYTICAL SAMPLE ID MATERIAL DESCRIPTION FINISH DATE 6/27/97    ANALYTICAL SAMPLE ID   MATERIAL DESCRIPTION   DO NOT CONTINUE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERT
Had by the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the secon
SM015TB04-0508   Fine to coarse SAND with fine to medium gravel, trace silt and clay, damp (SW)   SM015TB04-0508   Fine to coarse SAND with fine to medium gravel, damp (SW)   SM015TB04-0508   Fine to coarse SAND with fine to medium gravel, damp (SW)   SM015TB04-0508   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   SM015TB04-0508   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   SM015TB04-0508   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to medium gravel, silt, wet (SC)   Fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse SAND with fine to coarse S
1-   2-   3-   4-   5-   6-   SM015TB04-0508   Gravel, trace silt and clay, damp (SW)   Gravel, trace silt and clay, damp (SW)   Gravel, trace silt and clay, damp (SW)   Gravel, trace silt and clay, damp (SW)   Gravel, trace silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel, silt and clay, damp (SW)   Gravel,
1-2-3-4  Dark gray, clayey, fine to coarse SAND, few fine to medium gravel, silt, wet (SC)  SM015TB04-0508  Water at 3 ft.  -2  -3  -4  -5  -6  SM015TB04-0508
2- 3- 4- Dark gray, clayey, fine to coarse SAND, few fine to medium gravel, silt, wet (SC)  SM015TB04-0508
3- 4- 5- 6- SM015TB04-0508  Water at 3 ft.  -3 Water at 3 ft.  -3 Water at 3 ft.  -4 SM015TB04-0508
Dark gray, clayey, fine to coarse SAND, few fine to medium gravel, silt, wet (SC)  SM015TB04-0508
Dark gray, clayey, fine to coarse SAND, few fine to medium gravel, silt, wet (SC)  SM015TB04-0508
few fine to medium gravel, silt, wet (SC)  5-6 SM015TB04-0508
6- SM015TB04-0508
SM015TB04-0508
8 ( ) 55   29
9-\/ //   9-\/ //
1 n- /\
12 50 15
No recovery
13-\\/\
14-
16 Dark gray clayey fine to coarse SAND
Dark gray, clayey, fine to coarse SAND, trace fine gravel, silt, wet (SC)
17-\/\   SM15TB04-1719
18-1 X
19- \land   SM015TB04-1719
Water at 19.7 ft
Brown, fine to med. SAND, trace silt, (SM)
NOTES:

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

Page 1 of 1

PRO.	IFC:	T NAME	- Bay	yer Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING SMO15-TBO	<u> </u>
				SWMU			DRILLING (ft-bgs) 19.7	G.S. ELEV.639.786	<u></u>	
					nia Drilling Co.	<del></del>	WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
DRIE	.LIN	G FIRE	4 <u> </u>	HSA to	5 ft. / Geoprobe	<del></del>	<del></del>		START DATE 6/27	
					o o it. / deoprobe		NORTHING -1018.62979			
LOG	GED	BY	o. Werk	man		<del></del>	EASTING 1330.82790		FINISH DATE 6/27	797
	ш		<u>.</u>	ō,			,		,	!
<u>∓</u>	GEOPROBE	RECOVERY (percent)	SAMP. (FT.)	HNu Reading (ppm)	ANALYTICAL	٠		SYMBOL	REMARKS	=
DEPTH	등 	S S	뜶	[윤윤	SAMPLE ID		MATERIAL DESCRIPTION	J. W. C	·	DEPTH
	5	E S	AUGER S	Ž						
					SM015TB03-0001		edium to fine GRAVEL with fine to	).0.0		
1-			0-1	16.8		coarse s (GW)	and, few clay, trace silt, damp	ن∴0	1	H
ļ						(0,,		0.00		
2-					İ			0.00		-2
3-			1–3	18				0:0		-3
								).0.(		
4-					SM015TB03-0305			0.00		4
5-			3-5	0				<u> </u>		-5
ľ	1	1					nedium gravelly CLAY, few fine to			
6-	{\ <i>[</i>					<u> </u>	and, wet (GC)			-6
7	I۷						y, clayey, fine to coarse SAND, to medium gravel, silt, (SC)			7
'-	۱۸	ļ				iew inic	to medium graver, one, 1007			
8-	I/\				SM015TB03-0709					8.
	<i>۱</i>	35		115.8						9
9-	1	1								
10-	$\backslash /$	i i							·	<b>⊣</b> 0
	W									<b>∤</b> ∣
11-	1 1				SM015TB03-1012					<b>⊢</b> 11
12-	I/\									<del>1</del> 2
	$V \setminus$	V		>1999						
13-		1								H3
14-	1\ /									-14
1	IV	į			SM015TB03-1316					ŀ
15-	X									H5
16-	$]/ \setminus$									-16
"	V 1	V		>1999						
17-				•						-17
_ ا	N /	1			CHOIST DO3 1710					<b>−</b> 18
18-	1\/	-			SM015TB03-1719					"
19-	<b>X</b>						and the market OAND Area - 90	::::::	-	<b>-1</b> 9
	<b>Ι</b> Λ:			>1999		Brown, fi (SM)	ne to medium SAND, trace silt,	[2:02] [2:02]	Water at 19.7 ft.	
20-	1/ \	l	}	,500						-20
21-	<u>/'</u>	88		<u> </u>		Bottom o	of boring 21 ft	1474	:	
C N	OTE	C.								¥

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

¹PRO√	JEC	T NAME	- Bay	yer Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING SM015-TB0	2
				SWMU			DRILLING (ft-bgs) 1.4, 21.0		G.S. ELEV. <u>640.062</u>	
					nia Drilling Co.		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
DRI	1 TN	G MET	HOD_	HSA to	5 ft. / Geoprobe	•	1050 17121		START DATE 6/30/	97
		BY(				_	NORTHING -1058.17131		FINISH DATE 6/30/97	
	000	, , , ,	1	<del></del>	<del></del>		EASTING_1300.27755		THISTIBATES	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM015TB02-0001	<u> </u>	pavement			
1-	1		0-1	28.9			ne to medium gravelly CLAY, few coarse sand, trace silt, damp. (GC)		Water at 1.4 ft.	ľ
2-	}	ļ	Ì			Time to c	yourse saire, a does only damp! (our			-2
3-	1		1-3	138						-3
4-	]	•		ļ	SM015TB02-0305			20		-4
l			3-5	2.3						-5
5-	\ /	1					•			
6-	1\/									<del> </del> 6
7-	1 X									-7
8-	<b>∤/\</b>	ŀ								-8
9-	1	28		0		_	own to yellow, shaley SILTSTONE,			<b>-9</b>
	Λ,	1	ŀ			damp gr	ading to wet			40
10-	]\/	}						1//		1.
11-	1 1							1/		H
12-	╢	\l								H2
13-	<del> </del>	45		1.7					•	-13
14-	$\Lambda$	/			SM015TB02~1315		own, clayey, fine to coarse SAND, trace fine gravel (SC)			-14
	١V									-15
15-	1٨	Ï								
16-	∜ \	V								<b>⊣</b> 6
17-	$\leftarrow$	100		148		Brown, o	clayey, fine to coarse SAND, trace			H7
18-	<b>∤\</b> /	/				fine gra	vel and silt, very moist (SC).			<del> </del> 48
19-	J۷		1			ı				-19
	IΛ		1		CM04ETP01_4001		`			20
20-	ן ∖	V		40.0	SM015TB01-1921					
21-	T	53		13.6		Brown,	fine to coarse SAND, trace silt, wet		Water at 21 ft.	-21
22-	$\backslash \backslash$	/				(SW)				-22
23-	<b>∤</b>				-					-23
24-	ТЛ									-24
	<b>\</b> '	58		1.2		Bottom	of boring 25 ft			
	25   58   1.2   BOTTOM					<u> </u>				20

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PROJECT NAME Bayer Corp., New Martinsville, WV							WATER LEVELS		BORING SMO15-TB	101
				SWMU			DRILLING (ft-bgs) 11.6		G.S. ELEV.639.870	
					nia Drilling Co.		WELL LEVEL (ft-msl)NA		CASING ELEV. NA	
					5 ft. / Geoprobe	======================================			START DATE 6/30	0/97_
•			G. Werl				NORTHING -1078.52186	<del></del>	FINISH DATE 6/3	
1000			1		1		EASTING_1344.22535		FINISH DATE	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM015TB01-0001	<u> </u>	shed stone aggregate (fill)	0000		
2-			0-1	0			rown, fine to coarse SAND, trace angular gravel and silt, damp			-2 -3
4-					SM015TB01-0305					-4
5-		}	3-5	0		Same as	above, grading to gray, trace fine			-5
6-	$\mathbb{N}/$					to coarse	e gravel			-6
7-	X		1							-7
8-	$ / \setminus$				SM015TB01-0709	•				-8
9-		65	Ì			Dark gray	y, clayey SILT, few fine to coarse	777		9 (
10-	$\mathbb{N}/$					sand, tra	ce fine to coarse gravel, damp			10
11-	X					9.00.79	o not (n.e.)		Water at 11.6 ft.	-11
12- 13-	/	43		0		Same as	above, wet		Hater at 11.0 ft.	H2 H3
14-	N/					Jalle as	above, wet			-14
15-	V	,								-15
16-	$ / \rangle$									-16
17-	$\left( -\right)$	50		5.7		Same as	above			-17
18-	$\backslash /$								SM015TB01-1820	-18
19-	X.			1					collected at	-19
20-	$ / \rangle$				SM015TB01-1820				18.8-20.8 ft.	-20
21-		43	,	0			wn, fine to medium SAND, trace	1/1/14	Water at 20.8 ft.	-21
22-\/  siit, wet						silt, wet	(SM)			-22
23-	X									-23
24-	$/ \setminus$	95		143.2		Bottom o	f boring 25 ft			-24
25- N	OTE:		<b>1</b>	1,70,2	<del></del>	Doctom O		<u> </u>		<u> </u>

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

**BORING LOG** 

<u></u>			Ray	er Cor	p., New Martinsvill	e WV	WATER LEVELS		BORING SM014-TB0	03
						<u> </u>	DRILLING (ft-bgs) 21.0	-G.S. ELEV.641.070	<u> </u>	
BOH	ING	LUCAI	IUN_	SWMU	nia Drilling Co		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
					nia Drilling Co.	<del></del>			START DATE 6/26	/97
					5 ft. / Geoprobe		NORTHING -1938.82656			
LOG	GED	BY_G	. werk	man_			EASTING_1340.38342		FINISH DATE 6/26	/9/
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS .	ОЕРТН
					SM014TB03-0001		y to dark brown, clayey, fine to AND, few fine gravel and crushed			
1-	-		0-1		-		ace silt (SC)			Ħ l
2	┨			ļ		Dark red	-brown, clayey, fine to coarse			-2
3.	4		1-3	3		SAND, fe	w fine gravel, trace silt, moderate			-3
4				[	SM014TB03-0305	plasticity	, very damp (SC)			-4
			3-5	19.2						-5
5.	Λ/	1					wn to gray-olive green, clayey			-6
6	1\/					SAND, tr	ace fine gravel, very moist (fill)			
7.	$\exists X$									-7
8	$-   \langle \cdot \rangle$									-8
`	<u> </u>	60		0						l <del>o</del>
10	$\backslash \ / $	1								<del> </del> 40
1	IV		ļ							<b>1</b> 11
11	$1\Lambda$									
12	∜ \	j								<del> 1</del> 2
13	+	65		0	ļ .					<del>  1</del> 3
14	-{\ /	1	ļ	1						14
15	-J Y									<b>-1</b> 5
16	$\mathbb{N}$						own, clayey, fine to medium SAND, t, medium plasticity (SC)			<del> </del> 16
1	۱ V	70	,	0		11000 311	t, medium pidotioity (00)			<b> </b>  -17
17		1								
18	1∖/									H8
19	$\exists X$	Ì		İ	<u> </u>					<del> 1</del> 9
20	4/				SM014TB03-1921					-20
21		73		0					Water at 21.0 ft.	-21
22	Λ.	1		`						-22
1	٦V									-23
23	٦Ĭ						own, fine to medium SAND, trace			
24	╢ /					silt, wet,				-24
25	<u> </u>	100	<u> </u>	I	<del> </del>	Bottom	of boring 25 ft	p. Mari		25
-/	NOTE	o: enths a	nd Flev	ations i	in feet unless other	wise noted	5. ft-bgs-feet below ground su	ırface		

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

Page 1 of 1

### **BORING LOG**

PROJE	СТ МАМІ	= Bay	yer Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING SM014-TBC	02
II .	G LOCA					DRILLING (ft-bgs) 19.2	G.S. ELEV.641.170	ί.	
				nia Drilling Co.		WELL LEVEL (ft-ms!) NA		CASING ELEV. NA	
				5 ft. / Geoprobe		<u> </u>		START DATE 6/26/	97
						NORTHING -1980.24178		li .	
LOGGE	D BY_	J. WEIN	Milali			EASTING_1269.89404		FINISH DATE 6/26	/9/
DEPTH	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
				SM014TB02-0001	Asphalt p				
1-		0-1				wn, clayey, fine to coarse SAND, el, crushed stone, very damp, (fill)			H
2-	ļ.				ine grav	ei, crustied stolle, very dallip, (till)		•	-2
							$\bigcirc$ $\circ$		_
3-		1-3	0		Same as	above, some red-brown soil			-3
4-				SM014TB02-0305					4
				340141802 00001			0.0	•	
5	-	3-5	0.6						-5
6-\	/								-6
" \	/							e e	
7- )	(					•	00		7
8-/									-8(
	1		_				V O		`
9—	13		0				Q o		9
10-	/								40
"  \	/						00		
11-  )	(						V 0		H1
12-/	\							•	H2
"	1		ļ _						
13-	43		0						<b>⊣</b> 3
14-	/						$\bigcirc$ $\bigcirc$		-14
1 "  \	/			.					
15-	(			i			O d		<b>⊣</b> 5
16-							<del>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </del>	SM014TB02-1519	<del>-1</del> 6
"				ļ	Dark gray	y, clayey SILT, few fine to medium		collected from 15.8	
17-	45		0			mp (ML-CL)	7.7.7.2	to 19.2 ft.	H7
18-	/			SM014TB02-1519		wn, clayey, fine to coarse SAND,			<b>⊢</b> 18
<sup>''°</sup> ]\	/				few fine	gravel, trace silt (SC)			
19-	X I							Water at 19.2 ft.	<b>⊣</b> 9
						и		THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P	-20
I						of haring 21 ft			
21-L NOT	<u> </u>	<u> </u>	<u> </u>	1	BOLLOW O	. Doining 21 It	J <del></del> .		<u>-1-2</u> (

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 Geoprobe samples marked with crossed boxes
 Auger samples marked with depth intervals

5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

# **BORING LOG**

	•			П-1		n Nou Mortinevill	o WV	WATER LEVELS		BORING SM014-TB0	)1
						p., New Martinsvill	e, wv	DRILLING (ft-bgs) 18.8		-G.S. ELEV.640.833	
-	30RI	NG	LOCAT	ION_	SWMU	nia Prilling Co		WELL LEVEL (ft-msl) NA		CASING ELEV. NA	
1	ORIL	LIN	G FIRM	Per	usyiva	nia Drilling Co.				i	97
						5 ft. / Geoprobe	<u> </u>	NORTHING -1948.71051		START DATE 6/26/97	
ľ	LOGG	ED	BY_G	. Werk	man			EASTING 1205.94985		FINISH DATE 6/26	/9/
	ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
ı						SM014TB01-0001	<u> </u>	pavement	0000		1.
	1-			0-1		:		stone aggregate, fine to coarse t, damp (fill)			<u> </u>
١	2-							wn, clayey, fine to coarse SAND,			2
1	3-			1-3	0		few fine	gravel, damp (SC)			-3
ı	4-					SM014TB01-0305					4
١	7					3,41201 0300					
ı	5-	$\Box$		3-5	0			above, yellow-brown, few fine to			-5
١	6-	\ /					medium g	ravei			-6
l		V									7
Ļ	7-	λl									Γ΄ ΄
,4 <sup>1</sup>	8-	$/ \setminus$									8
	9-		58		0						9
ı	10-	$\mathbb{N}$					•				40
	11-	X		Ì							-11
١	12-	$\  / \ $					Valtari b	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			-12
	13-		45		0			orown, clayey, fine to medium cace fine gravel, damp (SC)			<del>-1</del> 3
	14-	$\mathbb{N}/$									H4
	15-	V					Dark gra silt, dam	y, fine to medium sandy CLAY, few p (CL)			<del>-1</del> 5
	16-						Dark bro	own, clayey, fine SAND, few silt, iC)			<del>-1</del> 6
	17-	<u> </u>	100		0					SM14TB01-1618	-17
	18-	$\mathbb{N}/$				SM014TB01-1618	Dark bro (SP)	own, fine to medium SAND, few silt,		to 18.8 ft.	<b>⊣</b> 8
	19-	X X								Water at 18.8 ft.	<del>-1</del> 9
	20-	$   \rangle \langle   \rangle$									-20
	21-		100		0		Bottom	of boring 21 ft	i de la l		<u> </u>
~^1	;	2. US 3. Ge	epths ar SCS Cla eoprobe	ssificat sampl	tion bas es mark	n feet unless otherwed on visual-manual ed with crossed box with depth intervals	procedures	5. ft-bgs-feet below ground su 6. ft-msi-feet above mean sea		Page 1 of 1	

PROJECT NAME Bayer Corp., New Martinsville, WV	WATER LEVELS	BORING SM013-TB08
BORING LOCATION SWMU 013	DRILLING (ft-bgs) 17.1	G.S. ELEV.639.317
DRILLING FIRM Pennsylvania Drilling Co.	WELL LEVEL (ft-msl) N/A	CASING ELEV. N/A
DRILLING METHOD HSA to 5 ft. / Geoprobe		START DATE 7/15/97
	NORTHING 932.94029	
LOGGED BY G. Werkman	EASTING 1066.42138	FINISH DATE 7/15/97
GEOPROBE RECOVERY (percent) AUGER SAMP. DEPTH (FT.) HNu Reading (ppm) (ppm) TYPITE (Ppm)	MATERIAL DESCRIPTION	REMARKS HE
	pavement usbed stone aggregate, trace fine	
'	ushed stone aggregate, trace fine se sand, silt, (fill)	<del>[4</del> ]
	ine to medium sandy silt, wet (ML)	-2
	ine to coarse sandy CLAY, fine	
	few silt, damp (CL)	<b>□</b>
4- SM013TB08-0305		-4
		<del> </del>
3-5 0		5
6-1//	<del></del>	-6
°7\/		
1 7-1 ( )		<b>-</b>
1		<b> </b>
8-// \		
	ay, silty CLAY, trace fine sand,	
\ \damp (0		H0
	clayey SILT, trace fine sand, gray damp (ML)	
11-	( )	<i> </i> -11
		H2
		"
13 100 0		<del> </del>  3
	<u></u>	L
	ST. T. 1	H4
	fine to medium sandy SILT, trace amp grading to wet (ML)	<del>-15</del>
	[	
16- / \	<u> </u>	· <del>-  </del>
17-	<del>-</del> -	Water at 17.1 ft.
		··-  I
18- \/		H8
19-	<del>-</del>	H9
	<u>-</u>	<u>: -</u>
20- / \	<u></u>	-20
21 100 0 Bottom	of boring 21 ft	··- <del> </del>

1. Depths and Elevations in feet unless otherwise noted

2. USCS Classification based on visual-manual procedures3. Geoprobe samples marked with crossed boxes

4. Auger samples marked with depth intervals

5. ft-bgs-feet below ground surface

6. ft-msl-feet above mean sea level

, DDU	IE C	LNAME	: Bay	er Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING SM013-TB	07
				SWMU			DRILLING (ft-bgs) 15.4	-G.S. ELEV.639.176		
DON	I I TA	CETOL	Per	nsviva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	Α
DRI	LLIN	G FIRN	1	HSA to	5 ft. / Geoprobe	<u> </u>			START DATE 7/14/	
					7 0 1t. 7 Ocoprobe	<u></u>	NORTHING_697.68863			
LOG	GED	BY_G	, were	Milari			EASTING 1135.54986		FINISH DATE 7/14	/ 5/
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					SM013TB07-0001		ushed stone aggregate (fill)			
1-	$\dashv$	į	0-1				rown, fine to coarse sandy SILT, ne gravel, clay, damp (ML)			
١,	Ì					u ace iii	e graver, clay, damp (ML)			-2
2-	1									
3-	-		1–3	0						-3
					CM013TB07_0305			[-3		-4
4-					SM013TB07-0305					
5-	<u> </u>		3-5	0						-5
	1									-6
6-	1\/						The Old W. Pillin Share and	777		
7-	<b>.</b>   Y						own, silty CLAY, little fine sand, ne gravel, damp (CL)			-7
1	1/									
<u>√</u> 8-	∜ /├				1					₽
9-		100		0						-9
ľ	1	1								
10-	<del>/</del> \/									10
	$\rfloor V$		ļ							H1
11-	٦٨	}			v					
12-	-{/\	ŀ								<del>-1</del> 2
	1	58	İ	0						<b>-13</b>
13-	T	1 30					own, silty CLAY, trace fine sand gravel, moist grading to wet (CL)			
14	- \ /	'			SM013TB07-1315		graver, moist grading to wet (oc)			<del>  1</del> 4
	IV									
15	J X								Water at 15.4 ft.	<b>⊣</b> 5
16	\/إ_				•				Natel at 10.4 It.	<del>-1</del> 6
1 "	\ \ \	V								
17-	+	100		0.						147
18	$-$ \/					Brown, f	ine to medium sandy CLAY, wet	/ 💮		-18
19	4 Y	1					ine to medium SAND, few silt, wet			-19
1	1/\		1			(SW)				
20	۱ /۲	d i		-						-20
্ৰ <sup>†</sup> 21	<u> </u>	30_	<u>L</u>	<u> </u>		Bottom	of boring 21 ft			21
	NOTE	S:					E standar-foot bolow ground su			

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

BORING LOG

PRO.	FCT	NAME	Bay	yer Cor	p., New Martinsvi	lle, WV	WATER LEVELS	BORING SM013-TB06		
				SWMU			DRILLING (ft-bgs) 14.7	-G.S. ELEV.639.175		
DOM	. T. 1	C CION	Per	nsvlva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/A	
					5 ft. / Geoprob	<u> </u>			START DATE 7/14/97	
					, <u> </u>		NORTHING 367.40889	<del></del>	FINISH DATE 7/14/97	
LOG	3EU	BY_G	J. WEIF	Milan			EASTING_1136.32614		FINISH DATE 17117	<u> </u>
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	рертн
					SM013TB06-0001		ushed stone aggregate, fine to sandy silt, little clay (fill)	1-0		
1-			0-1			\	ine to coarse sandy SILT, little	/		H
2-						clay, tra	ce fine subrounded gravel, damp			-2
			1-3	0	ļ	(SM)	OTI T ( ) ( )			-3
3-		 	1-3	"			ayey SILT, few fine sand, trace rounded gravel, (ML)			["
4-										4
_			3-5	0		]				-5
5-	Gray,						ayey SILT, trace fine sand, brown high plasticity, moist (ML)			
6-	<b>/</b> /									<b> </b> -6
7-	Įγ									-7
· .	l۸			ŀ						
8-	<del>ا</del> /ا									<del>-8</del>   i
9-		48		0			W. Ol AV madavala alasticitu	- ////		-  -
	N /	1					ilty CLAY, moderate plasticity, ne sand and gravel, moist (CL)			-10
10-	11/						•			
11-	ł X									-11
12-	$\mathbb{N}$		ľ		Add to the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of					-12
"-	$V\setminus$					]				
13-		63		"						13
14-	1\ /				SM013TB06-1214					<del>-1</del> 4
	I۷					Brown, 1	ine to medium sandy CLAY, little		Water at 14.7 ft.	<b>⊣</b> 15.
15~	1٨					silt, wet	(CL)			"
16-	ł/\					Gray-br	own, fine SAND, few silt, wet (SP)			⊣6
17-	<u>/_\</u>	100		0						H7
"-	\ /									
18-	╢									<del> </del> 18
19-	1 1			}						19
˜										
20-	$\ \cdot\ $			1						-20
21-	<u> </u>	100	<u> </u>		<u> </u>	Bottom	of boring 21 ft	<u> 188981</u>		
N	OTE	S:								`

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 Geoprobe samples marked with crossed boxes
 Auger samples marked with depth intervals

5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

_ Jab∪	וברז	TNAME	- Bay	ver Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING SMO13-TB	05
				SWMU			DRILLING (ft-bgs) 19.7	—G.S. ELEV. <u>639.654</u>		
חטם	TING	LOCA I	Per	nsviva	nia Drilling Co.		WELL LEVEL (ft-msI) N/A		CASING ELEV. N/A	
ונטמ	TNI	G FINN	UOD	HSA to	5 ft. / Geoprobe	= = = = =			START DATE 7/8/9	97
		BY					NORTHING -430.71289		FINISH DATE 7/8/97	
LUG	GEU	BY	7. 17.0.11				EASTING 1097.96145	<del></del>	FINISH DATE	_
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM013TB05-0001	Asphalt p	pavement	200		
1-	┨		0-1	0			shed stone aggregate, fine to andy silt, slighlty damp (fill)	200		
2-	-				!		ne to coarse sandy CLAY, little edium, subangular and subrounded			-2
з-	4		1–3	0			race silt, very moist (CL)			-3
4-	-				SM013TB05-0305					4
5.			3-5	6.8		Brown-v	ellow, fine to coarse sandy CLAY,			-5
1	1.	1		1		few suba	ngular sandstone gravel, trace		•	-6
6-	$\mathbb{N}$	ļ				silt, damp	) (CL)			7
1 7	٦٨					Same as	above			Γ
_ <u> </u> 8	-{/\							7////		-8
9	<u> </u>	65		0		Dark gra \ damp (C	y, silty CLAY, trace fine sand, L)			9
10-	4\/						rown, fine to medium, subangular, CLAY, little fine to coarse sand,			<del>-1</del> 0
11:	<b>↓</b>						t, damp (CL)			<b>H</b> 1
12:	\\∟									-12
13	<u> </u>	55		G		Brown, c	layey, fine to medium SAND, few	/		-13
14	$\Lambda \Lambda$	1				·	ne to medium sandy SILT, few			-14
15	١٧					Dark bro	wn, sandy CLAY, few silt, gray	/		<b>-1</b> 5
16	4/					mottles,	damp (CL)			-16
17		100		0						<b>-17</b>
18	Λ.	1			SM013TB05-1719	Brown, fi silt, wet	ine to medium SAND, little clay, few (SP)			<b>-18</b>
1	17				2.10.2.200 1710					-19
19	Т٨								Water at 19.7 ft.	-20
20	V	100		0		Bottom	of boring 21 ft			20
21 	NOTE	 :S:					5 ft-bas-feet below around su			-1

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRO.	IEC:	Τ ΝΔΜΙ	- Bay	yer Coi	p., New Martinsvill	e, WV	WATER LEVELS		BORING SM013-TE	804
				SWMU			DRILLING (ft-bgs) 15.2, 17.8		- G.S. ELEV.640.442	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	
					5 ft. / Geoprobe	!			START DATE 7/3/	
		BY			<del></del>		NORTHING -778.45392	FINISH DATE 7/3		
							EASTING_1127.37385	<del></del>	FINISH DATE 775	<del>,                                    </del>
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
1-					SM013TB04-0001		own crushed stone aggregate, fine e sandy silt, damp (fill)	100		-1
2-								2		_2
3-			1–3	o			ne to coarse sandy CLAY, few silt, e gravel (CL)			3
4-					SM013TB04-0305					-4
5-	_		3~5	0			<u> </u>			-5
6-	N/						wn, light brown, green, clayey, fine e SAND, trace fine gravel and silt,			-6
7-	Įγ.		}			dallib (2	<b>G</b> )			7
8-	$ /\rangle$									81/5
.8–		70		0			y, silty CLAY, few fine to coarse			9
10-	$\bigvee$	,				sand, tra (CL)	ace fine gravel and organic matter			-10
11-	Ň									-11
12-	$/ \setminus$	55		11.2	SM013TB04-1113					12
13-	\ /						yey, fine to coarse SAND, fine ark brown mottles, wet (SC)			-13 -14
15-	V									-15
16-									Water at 15.2 ft.	<b>⊣</b> 6
17-		58		26	SM013TB04-1617					-17
18	$\setminus /$						ne to medium SAND, few silt, trace		Water at 17.8 ft.	-18
19-	X					clay and	fine gravel, wet (SW-SM)			19
20-	$/ \setminus$					Dattem -	f boring 21 ft			-20
21-	OTES	100		0	L,	BOTTOM 0	f boring 21 ft	for the		

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface6. ft-msl-feet above mean sea level

			. 80	ior Cor	n. New Martineville	- WV	WATER LEVELS		BORING SM013-TB0	03
					p., New Martinsvill	e, wv	DRILLING (ft-bgs) 11.5, 18.1	-G.S. ELEV.640.060		
BOR	ING	LOCAT	ION	SWMU	nio Drilling Co	-	WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
					nia Drilling Co.					
					5 ft. / Geoprobe	!	NORTHING -1205.20449		START DATE 7/2/9	
LOG	GED	BY	6. Werk	man			EASTING_1108.88687	· 	FINISH DATE 7/2/	97
			0.0	0			<del></del>			
DEPTH	GEOPROBE	RECOVERY (percent)	R SAMP 'H (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	99	REC (pel	AUGER S	로				8		
1					SM013TB03-0001		ished stone aggregate, fine to	V-0		
1-	]		0-1	0	SM0131 B03-0001	coarse s	andy silt, damp, (fill)	107		4
			}	1			•			
2-	1				<u> </u>		rown, SANDSTONE boulder	_\ <u>~</u> \		-2
3-			1–3	0		Green-Di	TOWN, SANDSTONE DOGGE			-3
							wn, fine to coarse sandy CLAY,			1.
4-	†				SM013TB03-0305	(CL)	to medium gravel, trace silt, damp			⁴
5-	ļ		3-5	0	·					-5
	1				[					Ĺ
6-	1\/	ļ			]					H <sup>6</sup>
7-	]	İ	ŀ							7
\ \ \	١٨				1		•			}
<u></u> 8-	╢	,		ļ	}					-8
9-	<u> </u>	15		0		Dauly ava	w fire to come and CLAV fou			9
"	$\Gamma_{I}$						y, fine to coarse sandy CLAY, few vel, trace silt, wet (CL)			
10-	<b>∄\</b> /		}		]	2 0				<b>⊣</b> 0
1	11									-11
11-	1٨			ľ			•		Water at 11.5 ft.	"
12-	$4/\lambda$				CHOISTDOS 443					12
	۱ <u>۱</u>	38		0	SM013TB03-1113					H3
13-				*						"
14-	- \ /					Brown, c	layey, fine to medium SAND, few			14
١	IV			}		silt, mois				<b>-1</b> 5
15-	1∤.		!	1	l					13
16-	4/\									⊣6
1	<i>ا</i> ا	95								1,7
17-		95		0	SM013TB03-1618	Draun f	ine to medium SAND, few silt, wet	12.53.53		<b>⊣</b> 7
18-	<u> </u>					(SW)	me to medium SAND, few sitt, wet		Water at 18.1 ft.	-18
"	$\mathbb{N}$		1			-			mater at 10.1 It.	
19-	X		Ì		SM010TB21-1820					19
20-	<b>∄/\</b>									-20
<u>၂</u> ~	1					Bottom a	of boring 21 ft			
21-	<u></u>	<u>1 100</u>	<u>!</u>	0_		Dorton (	or sound mile	[2,372,34]		-1-21
1 1	IOTE	5: enths a	nd Flev	rations i	n feet unless otherw	vise noted	5. ft-bgs-feet below ground sui	face		

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

PROJ	ROJECT NAME Bayer Corp., New Martinsville, WV						WATER LEVELS		BORING SM013-TB	02
				SWMU			DRILLING (ft-bgs) 13.0, 17.0	G.S. ELEV. <u>640.636</u>		
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A	<u> </u>	CASING ELEV. N/A	
					5 ft. / Geoprobe				START DATE 6/26/97	
		BYG					NORTHING -1509.73677			
LUG	)EU	BY	. Herri				EASTING_1184.31604	FINISH DATE 6/26	7/9/	
ОЕРТН							MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM013TB02-0001	Asphalt	pavement	Δ. Δ.	· · · · · · · · · · · · · · · · · · ·	
1-			0-1	i I	0110101202		ne to medium GRAVEL, fine to and, trace silt, slag (fill)	AAA		4
	1					coarse s	and, trace sit, stag (fill)	$\triangle^{\Delta_{\Delta}}$		
2-						Grav. fin	e to coarse sandy CLAY, fine	<u>A.</u> .		-2
	l		1-3	0			race silt, damp (CL)			
3-			4							-3
4-					SM013TB02-0305	•				4
	ľ									
5-	$\dashv$		3-5	0		Yellow-b	rown to dark gray, clayey, fine to			-5
	\ /				040427000 0507		SAND, trace fine gravel, damp (SC)			
.6-	$\parallel \parallel$				SM013TB02-0507					6
7-	V									-7
	$\Lambda$									
8-	$/ \parallel$									-8
	′ \	88		0						
9				J		Same as	above, fine to medium gravel			19
10-	\ /				ĺ					<b>-10</b>
~	VI									
11-	XI									-11
ĺ	ΛΙ	Ì								
12-	$/ \parallel$				SM013TB02-1113					H2
	′ ∦	100		0						<del>-1</del> 3
13							ne to coarse sandy SILT, few		Water at 13 ft.	'
14-	\ /					clay, tra	ce fine gravel, wet (ML)			-14
	V									
15-	XI									<del>-1</del> 5
	M				<del> </del>	Brown, fi	ne to coarse sandy CLAY, fine		•	
16-					SM013TB02-1517		race silt, wet (CL)			<del> 1</del> 6
17						Bottom o	f boring 17 ft		Water at 17 ft.	17
										15

- 1. Depths and Elevations in feet unless otherwise noted
- 2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

ر ۱۹۹۰		LNAME	: Bav	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SM013-TB	01
				SWMU			DRILLING (ft-bgs) 23.2	—G.S. ELEV. <u>640.511</u>		
	11 I Th	CETON	Per	nsvlva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
DK.	LLLIN	O HET	1	HSA to	5 ft. / Geoprobe			<del></del> ,	START DATE 6/24	
					7 O TO. 7 OCOPTODE		NORTHING -2043.17231			
LO	3GED	BY_G	. werk	illan			EASTING 1083.02519		FINISH DATE 6/24	751
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					SM013TB01-0001	Asphalt r	····	10-0		1. 1
1	⊣ .		0-1				wn, crushed stone aggregate, fine es sandy silt, damp, (fill)	40		
2	:-{					(0 00013	C Suriay Sitt, dailip, (iii)	07		-2
] з	4		1–3	0			rown, fine to coarse sandy SILT,			-3
					SM013TB01-0305	few clay,	trace crushed stone, damp, (fill)			-4
	1		3-5	0						-5
5	<b>\</b>									
6	H\/						•			6
7	$\cdot \mid \chi$		ļ							-7
8	A/A				1			. — . –		-8
[	- V - V	50		0.4						9
} 8	, \	1	]	07			y to brown, fine to coarse sandy			1 1
´   10	<b>'</b>  \/		ļ				w crushed stone, trace TDI damp, (fill)			<del> </del> 10
1	1 <del>-</del>   X									<del>   </del> 11
12	<u>,</u> ∐/∖									-12
	/ V	30		0						<b>⊣</b> 3
13	, T									1 1
14	<b>'</b>  \/			ļ						<del>  1</del> 4
15	5 <b>-</b>   X									<b>-1</b> 5
16	3 <u>-</u>  /\						**			<del> </del> 16
17	,	43		0			wn, fine to coarse sandy CLAY, ne gravel, (CL)			47
	Λ.	1				trace m	ic graves, (or)			- <del>1</del> 8
18	³┤\/									
19	∍ <del>/</del> X					Dark gra	y, sandy CLAY (CL)			H9
20	۱/ الحر									-20
2	1—	53		0					•	-21
	Ι.	1.			SM013TB01-2023					-22
22	<u> </u>									
23	³┤X								Water at 23.2 ft.	23
24	4- /∖					Brown, s	andy CLAY (CL)			24
25	<u>,</u>	50	<u> </u>	0_		Bottom o	of boring 25 ft			
	NOTE	S:								

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted

  2. USCS Classification based on visual-manual procedures

  3. Geoprobe samples marked with crossed boxes

  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

DRILLING FIRM   Pennsylvania Drilling Co.   DRILLING FIRM   Pennsylvania Drilling Co.   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   HSA to 5 ft. / Geoprobe   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHOD   DRILLING METHO	PROJECT	Г NAME	- Bay	yer Cor	p., New Martinsvill	le, WV	- WATER LEVELS		BORING SMU12-1BC	<u> </u>
DRILLING FIRM							_	G.S. ELEV.640.544		
DRILLING METHOD							WELL LEVEL (ft-msi) N/A		CASING ELEV. N/A	
Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Company   Comp						;				
Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard   Hard							NORTHING -1662.18508			
SM012TB03-0001   Light gray, crushed stone aggregate, fine to coarse sandy sit, damp (fill)   Smouth sity CLAY, few fine to medium sand, damp (fill)   -2	LUGGED	BY	o. HCIT	·····		·,	EASTING 1038.47459		FINISH DATE 0/23	791
Light gray, crushed stone aggregate, fine to coarse sandy sit, damp (fill)   Light brown, sity CLAY, few fine to medium sand, damp (fill)   SM012TB03-0305   Light brown, fine to medium sandy SILT, few clay, moist (fill)   SM012TB03-1113   Dark brown TDI residue (fill)   SM012TB03-1517   Gravel and smeared brown product in soil.   SM012TB03-1517   Gravel and smeared brown product in soil.   SM012TB03-1517   Gravel and smeared brown product in soil.   SM012TB03-1517   Gravel and smeared brown product in soil.   SM012TB03-1517   Gravel and smeared brown product in soil.   SM012TB03-1517   SM012TB03-1517   Gravel and smeared brown product in soil.   SM012TB03-1517   Gravel and smeared brown product in soil.   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of boring 17 ft   SM012TB03-1517   Smouth of	DEPTH GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	SAMPLE		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
Brown, slity CLAY, few fine to medium sand, damp (fili)  2 3-5 5 6-7 8-7 8-7 8-7 8-7 8-7 8-7 8-7 8-8 8-7 8-9 10- 10- 11- 12- 13- 75   >1999   SM012TB03-1113	1-				SM012TB03-0001			40		-1
3-										-2
SM012TB03-0305  6-7-7-8-9-58  1.2  Brown, fine to coarse sandy CLAY, few silt, trace gravel, moist (fill)  SM012TB03-1113  Dark brown TDI residue (fill)  SM012TB03-1113  Dark brown TDI residue (fill)  SM012TB03-1113  Brown, fine to coarse sandy CLAY, trace silt, moist (fill)  SM012TB03-1517  Gravel and smeared brown product in soil.  Bottom of boring 17 ft  Water at 16.7 ft.			1-3	0						-3
Light brown, fine to medium sandy SILT,					SM012TB03-0305					-4
Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fill)   Few clay, moist (fi	5	•	3-5	0						-5
8-	6-\\									6,0
8-	I IVI									1
9	<b> </b>					•			٠	-7
Brown, fine to coarse sandy CLAY, few silt, trace gravel, moist (fill)	8-//		p.							-8
10— 11— 12— 13— 75    SM012TB03-1113	9-	58		1.2						9
11-	10-\\/					trace gr	avel, moist (im)			10
12	11-									11
Brown, fine to coarse sandy CLAY, trace silt, moist (fill)  14- 15- 16- SM012TB03-1517 Gravel and smeared brown product in soil. Bottom of boring 17 ft  Water at 16.7 ft.	12-//	,			SM012TB03-1113	Dark bro	wn TDI residue (fill)	××		12
14-15 16-16 SM012TB03-1517 Gravel and smeared brown product in soil. Bottom of boring 17 ft Water at 16.7 ft.	13	75		>1999		Brown, fi	ne to coarse sandy CLAY, trace	× ×	·	-13
15— SM012TB03-1517 Gravel and smeared brown product in soil.  Bottom of boring 17 ft Water at 16.7 ft.	14-					5at, 111015	· (1111)			14
SM012TB03-1517 Gravel and smeared brown product in soil.  Bottom of boring 17 ft  Water at 16.7 ft.	15-									-15
	16- / \				SM012TB03-1517		•			16
	17	65		768		Bottom c	or Doring 1/ ft		Water at 16.7 ft.	$\perp_{i_{\tilde{l}}}$

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

Po	י ובר.	TNAME	- Bay	er Cor	p., New Martinsvi	lle. WV	WATER LEVELS		BORING SM012-TB02		
				SWMU (			DRILLING (ft-bgs) 3.0		G.S. ELEV.640.254		
nR	TI I TN	IG FIRN	A Pen	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A			— CASING ELEV. N/	A
					5 ft. / Geoprob	e	1750 63016			START DATE 6/25	/97_
		BY_					NORTHING -1750.63916 EASTING 1028.43623			FINISH DATE 6/25/97	
-	T						EASTING			<del></del>	1
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION		SYMBOL	REMARKS.	ОЕРТН
			0-1		SM012TB02-0001		stone aggregate, fine to coarse t, damp (fill)	_/ ŀ			
<b>I</b> I	-		0-1			medium g	wn, fine to coarse SAND, fine to ravel, trace clay and crushed	ŀ	0 0		
2	:-					stone, da	amp (SM)	ŀ	0 0		-2
3	; <del>-</del>		1-3	0			wn, fine to coarse sandy CLAY,	<u> -</u>		Water at 3 ft.	-3
4	ı-				SM012TB02-0305	fine grav	el, trace silt, wet (SC)	:			4
	; <del></del>		3-5	385				<u>:</u> :- :-			-5
	<u>,                                    </u>					_		<u>:</u>			-6
1 -	,]\							<u>                                     </u>			-7
	$ \Lambda$						·				-8
	³- / \	م ا		E,				:			
9		2.5		51				[:			9
10	)- \ <i> </i>							[			⊣0
	1-  X				SM012TB02-0913			-			-11
1:	<u>.</u>  /\						·				-12
1:	<u>,                                    </u>	100		>1999				L			<b>-</b> 13
	1	Λ		ļ		No recov	ery			•	
14	⁺┤∖/										H4
1	₅ <del>│</del>										<del>-1</del> 5
10	₃_ /\										-16
1	<u>, L</u>			<u></u>		Bottom o	of boring 17 ft			,	
	NOTE	:S:					E ft-has-foot bolow ground	ourfo.			

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRO.I	FCT	NAME	: Bay	er Cor	p., New Martinsvi	lle, WV	WATER LEVELS		BORING SM012-TE	301
				SWMU (			DRILLING (ft-bgs) 3.0, 17.0 G.S. ELEV. 639.764			<u></u>
וזמת	INO I TNI	C FIDA	Per	nsylvai	nia Drilling Co.		WELL LEVEL (ft-msl) N/A -		CASING ELEV. N	
					5 ft. / Geoprob	e			START DATE 6/25	
					<u> </u>		NORTHING -1836.85762			
LOGG	Eυ	BY_G	. Wein	illati			EASTING_1027.40220	<del></del>	FINISH DATE 6/2	3/0/
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM012TB01-0001		stone aggregate, fine to coarse t, damp, (fill)			
1-			0-1				wn, fine to coarse SAND, fine to ravel trace clay, (fill)	0 0		1
2-								0 0		-2
3-			1-3	0			d, dark red and yellow, fine to andy CLAY, few gravel, trace silt,		Water at 3 ft.	-3
4-					SM012TB01-0305					-4
5-			3-5	0						-5
6-	$\setminus /$									6.
	V						n man			\ \
7-	X									-7
8-	$/\!\!\setminus$	1			SM012TB01-0709	Same as	above, wet			-8
9-		50		178						-9
10-	$\setminus f$	,							•	10
11-	X					÷				  -11
12-	$\wedge$	-			SM012TB01-1113					12
13-		100		498						-13
14-	$\setminus /$									-14
	$\bigvee$				CMONOTECH 1317					<b>-</b> 45
15-	$\bigwedge$				SM012TB01-1317	Same as	above, dark red-brown, wet			-13
16-	$/ \setminus$									<b>⊣</b> 6
17.	TE	85		>1999		Bottom o	f boring 17 ft			<u> </u>

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

**BORING LOG** 

੍ਰੈ PRO	JEC1	Г NAME	- Bay	er Cor	p., New Martinsvill	le, WV	WATER LEVELS	BORING SM011-TB01			
				SWMU			DRILLING (ft-bgs) 8.3	- G.S. ELEV. <u>640.509</u>			
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	Α	
DRI	LLIN	G MFT	HOD	HSA to	5 ft. / Geoprobe	•	00 (1000)14		START DATE 6/24	/97	
		BY(					NORTHING -2041.99314		FINISH DATE 6/24/97		
-	T	——————————————————————————————————————	 I				EASTING_1063.66513		THIGH BATE		
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS .	ОЕРТН	
1-			0-1		SM011TB01-0001		crushed stone aggregate, fine to sandy silt, damp (fill)	A POINT		-1	
2-		•						9 9 9		-2	
3.		-	1-3	0				100 A		-3	
4			3-5	0	SM011TB01-0305			900		<del>-</del> 4	
5·	N					Same a	s above	1000		6	
7	$\left  \right $									-7	
8	d								Water at 8.3 ft.	-8	
9		23	  -  -	0		Same a	s above			9	
10								400		<b>⊣</b> 0	
11	$    \rangle$							0		11	
12	\ \ \	13		0					·	H2 H3	
13	$\bigvee$					,				14	
1	/\	15		0		Refusal	; bottom of boring 14.7 ft	A ()			

#### NOTES:

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with the statements.
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

**BORING LOG** 

BOR DRII DRII	ING LIN	LOCA G FI	ME Bayer Corp., ATION SWMU 010 RM Microseeps THOD Geoprobe G. Werkman		Martinsville, WV	WATER LEVELS RELATIVE TO DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 967.07 NORTHING -602.93	A(	BORING NO. SM010-TB25 G.S. ELEV.640.54 CASING ELEV. N/A START DATE 11/12/99 FINISH DATE 11/12/99		
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
15-		4		0	As above, trace o	gravel			<b>T</b> 5	
	OTE:	pths	SM010TB25-1820 and Elevations in fe	0 eet unle	Bottom of boring			Water at 19.7 ft	20	
•	2. US 3. NS	SCS C S-Not	llassification based surveyed encountered	on visu	al-manual procedure	es	Sh	eet 2 of 2		

			ME Bayer Corp., ATION SWMU 010		lartinsville, WV	WATER LEVELS RELATIVE TO G.SURFACE DURING DRILLING (ft-bgs) N/A		BORING NO. SM010-TB25 G.S. ELEV.640.54	
DRTI	INU INI	G FI	RM Microseeps			WELL LEVEL N/A		CASING ELEV. N/A	
			THOD Geoprobe	9		967.07		START DATE 11/12/99	
			G. Werkman			EASTING_967.07 NORTHING602.93		FINISH DATE 11/12/99	
	Γ					Nonnano			
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			CMOIOTROE-0001		ASPHALT				
ł	$\mathbb{N}$		SM010TB25-0001		Crushed LIMESTON	NE		8	
					Brown to brown-yo dense, moist	ellow, silty SAND, little gravel, clay,	Ø/Ø/ Ø/Ø/ Ø/Ø/		
	ľ	4		0			ø/ø/ ø/ø/		
	$\left\  \cdot \right\ $		,				ø/ø/ ø/ø/		-
			SM010TB25-0305		Brown to red-brow low plasticity, v. s	wn, silty CLAY, little gravel and sand,	#		
5-	$\left  \cdot \right $				,		\$ / \$ / \$ / \$ / \$ / \$ /		5
		<b>A</b>		0	·		\$ / \$ / \$ / \$ / \$ / \$ /		<u>.</u>
				j			ø/ø/ ø/ø/		-
							\$ \ \$ \ \$ \ \$ \ \$ \ \$ \		
					Brown-yellow, sha plasticity, stiff, mo	ley CLAY, little silt, trace sand, low pist			-
J0-		4		0	Dk. gray, clayey	SILT, little f sand, stiff, moist	111		<u> </u>

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

BORI DRIL DRIL	ROJECT NAME Bayer Corp., New Martinsville, WV DRING LOCATION SWMU 010 RILLING FIRM Microseeps RILLING METHOD Geoprobe DGGED BY G. Werkman					WATER LEVELS RELATIVE TO DURING DRILLING (ft-bgs) N. WELL LEVEL N/A  EASTING -988.05 NORTHING 1473.16	BORING NO. SM010 G.S. ELEV.640.31 CASING ELEV. N START DATE 11/16 FINISH DATE 11/1	/A 3/99	
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	JOB MAN	REMARKS	ОЕРТН
30— N		4	SM010TB24-2123	40	Brown, f SAND, tr Bottom of boring	race silt, v. loose, wet 24 ft		Water at 23.2 ft	-25
	1. De 2. US 3. NS	epths SCS C S-Not	and Elevations in fo lassification based surveyed encountered	eet unle on visu	ess otherwise noted al-manual procedure	es	٤	Sheet 3 of 3	

**BORING LOG** 

BO DR: DR:	RING (LLIN	LOC NG FI NG ME	ME Bayer Corp.  ATION SWMU 010  RM Microseeps  THOD Geoprobe  G. Werkman		Martinsville, WV	WATER LEVELS RELATIVE TO G.SURFACE BORING NO. SMO DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING -988.05 NORTHING 1473.16  WATER LEVELS RELATIVE TO G.SURFACE BORING NO. SMO G.S. ELEV.640.3 CASING ELEV. START DATE 11/2 FINISH DATE 11/2			99_
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
15		4		9	plasticity, med. st	··· · · · · · · · · · · · · · · · · ·			<b>1</b> 5
		4		90	Brown, silty CLAY,	trace f sand, high plasticity, soft, v.			20

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

Sheet 2 of 3

**BORING LOG** 

BOR DRIL DRIL	ING LIN	LOC G FI G ME	ME Bayer Corp. ATION SWMU 010 RM Microseeps THOD Geoprobe G. Werkman	)	Martinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING -988.05  NORTHING 1473.16	BORING NO. SM010-TB24 G.S. ELEV.640.31 CASING ELEV. N/A START DATE 11/16/99 FINISH DATE 11/16/99			
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
			SM010TB24-0001		ASPHALT Crushed LIMESTON	E and SLAG	18. 18. 18. 18. 18. 18. 18. 18. 18. 18.	ورام اور مروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام وروام ورو		
		4		0	Brown, sandy CLAY plasticity, soft, v.	, little gravel, trace silt, med. moist				
•			SM010TB24-0305 SM010TB24-0305D		As above					
5-		4		0					-5 -	
		·			Brown to dk. gray, high plasticity, soft	sandy CLAY, trace gravel and silt, , v. moist				
10-	) TES	4		3					10	
1 2 3	. De 2. US 3. NS	oths CS C -Not	and Elevations in fe lassification based surveyed encountered		ss otherwise noted al-manual procedures		SI	heet 1 of 3		7

BORING LOG

HO	JECT	NAM	E Bayer Corp.,	New M	lartinsville, WV	WATER LEVELS RELATIVE TO G			FB23	
Rانت	ING L	OCA	TION SWMU 010			DURING DRILLING (ft-bgs) N/A		S.S. ELEV. <u>640.11</u>		
DRIL	LÌNG	FIR	Microseeps			WELL LEVEL N/A	j	CASING ELEV. N/A		
			THOD Geoprobe	<u> </u>		EASTING_1015.55		START DATE 11/12/99		
LOG	GED E	3Y_	G. Werkman	<del>.</del>		NORTHING -1234.99	F	FINISH DATE 11/12/	99	
ОЕРТН	SAMPLE	recovery (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
					Dk. red-brown, GF Bottom of boring t	RAVEL, little sand, silt, v. loose, wet 2 ft	0000	Water at 11 ft		
15-						·			H5	
¥	IOTES	oths a	and Elevations in f	eet unie	ess otherwise noted	- · · · · · · · · · · · · · · · · · · ·			20	
	3. NS	-Not	lassification based surveyed encountered	on visu	al-manual procedure	5	Sh	neet 2 of 2		

### **BORING LOG**

BOR DRIL DRIL	ING LIN LIN	LOCA G FI	ME Bayer Corp., ATION SWMU 010 RM Microseeps THOD Geoprobe G. Werkman	)	Aartinsville, WV	WATER LEVELS RELATIVE TO G. DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 1015.55 NORTHING -1234.99				
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	·	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	j
			SM010TB23-0001		Crushed LIMESTON Brown, f SAND, tra	ce gravel, silt, v. loose, moist	\$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00			
		4		0						
5-			SM010TB23-0305		As above	,			-5	, ver
		4		0						
			SM010TB23-0810		As above					
	2. U 3. N	epths SCS ( S-Not	and Elevations in fe lassification based surveyed encountered	8 eet unle on visu	Brown to v. dk. re gravel, loose, moist ess otherwise noted al-manual procedures		5	Sheet 1 of 2	10	-

BORING LOG

DRING LOCATIO DRILLING FIRM DRILLING METHO LOGGED BY G. W	Microseeps D Geoprobe	DURING WELL LE	LEVELS RELATIVE TO G.SUF DRILLING (ft-bgs) N/A EVEL N/A NG 1032.22 HNG -2388.41	(0 (0	BORING NO. SM010-TB22 G.S. ELEV.640.24 CASING ELEV. N/A START DATE 11/15/99 FINISH DATE 11/15/99		
DEPTH SAMPLE RECOVERY (feet)	NALYTICAL SAMPLE ID NH	MATERIA	AL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
SMC	010TB22-0911	Bottom of boring 12 ft		* * * * * * * * * * * * * * * * * * *	Water at 10.9 ft		
			·				
15-						<b>-</b> 15	
						-	
NOTES: 1. Depths and E 2. USCS Classif 3. NS-Not surv 4. NE-Not enco	Elevations in feet unle fication based on vist reyed ountered	ss otherwise noted al-manual procedures		Sh	eet 2 of 2	-20	

# **BORING LOG**

BORI DRIL DRIL	OJECT NAME Bayer Corp., New Martinsville, WV PRING LOCATION SWMU 010  FILLING FIRM Microseeps FILLING METHOD Geoprobe  GGED BY G. Werkman  ANALYTICAL GEOGEO				Martinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 1032.22  NORTHING -2388.41		BORING NO. SM010-1 G.S. ELEV.640.24 CASING ELEV. N/A START DATE 11/15/ FINISH DATE 11/15/	99_	
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
-		3.6	SM010TB22-0001	0	Crushed LIMESTO Brown, f sandy SI	ILT, trace clay and gravel, stiff, moist				, v
5-		3	SM010TB22-0305	0	Dk. brown, TDI Rf	ESIDUE, v. loose, moist			-5	
10— Ni	OTES	3.4 S:	SM010TB22-0911	4	ess otherwise noted	rading to wet			10	# k**

2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

Sheet 1 of 2

~,	PROJ	FCI	NAME	- Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMO10-TB	21
					SWMU			DRILLING (ft-bgs) 20.0		G.S. ELEV.639.553	
١	וזמח	.110	C ETDI	Per	nsvlva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	
	DUIL	LIN	0 HET	1	HSA tr	5 ft. / Geoprobe				START DATE 7/1/97	
						, <u> </u>		NORTHING -811.19878			
	LOG	SED	BY	o. werk	Mila II			EASTING 1014.61510		FINISH DATE 7/1/9	91
	ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
						SM010TB21-0001		y, crushed stone aggregate, fine	-07		
	1-				}		to coars	e sandy silt, wet (fill)	40		H
									2		_2
	2-								0		
	3-			1-3	0				100 A		-3
						SM010TB21-0305			100		4
	4-					SMU101 B21-0305					
	5-			3-5	6.8		Donly by a		-2:-		-5
		\ /						wn to gray, clayey, fine to coarse ace fine gravel and silt (SC)			6
	6-	M				]	•	-			ľ
	7-	X:									-7
~	)	$ \Lambda $									
-4	∱ 8− I	/\			1	SM010TB21-0709					-8
	9-		35		176						-9
		N /		}	,		•				1
	10-	$\backslash / $				j l					10
	11-	Į V									-11
		I۸									
	12-	V	 			SM010TB21-1113					H2
	12_	/ \	33		>1999			own, fine to medium sandy CLAY, t, moist (CL)			-13
	13-	N /				1		,,			
	14-	N /									14
		I۷									-15
	15-	١٨.									.~
	16-	I/\	ļ								<del> 1</del> 6
	۱	/ \	- 33		38	1		•			-47
	17-			İ							["
	18-	\ /			,	<b></b>					<b>⊣</b> 8
		IV			1			ne to medium SAND, few silt, trace			
	19-	1 Å				SM010TB21-1820	clay (SW	i)			H9
	20-	/	1							Water at 20.0 ft.	-20
ļ	I	$V \setminus$	88		>1999	1	Bottom o	of boring 21 ft			
	21	OTE:		1	1- 1000	<u> </u>					21

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

220			- Bay	er Cor	p., New Martinsvill	e. WV	WATER LEVELS		BORING SMO10-TB20	)/.\
PRU	)EC	NAME		SWMIL	010		DRILLING (ft-bgs) 20.0	_G.S. ELEV.639.889		
BOR.	ING	LUCAI	IUN_	SWMU	nia Brilling Co		WELL LEVEL (ft-msl)_N/A		CASING ELEV. N/A	
DRIL	.LIN	G FIRM	1	IIIS YIVG	nia Drilling Co.	<del></del>			START DATE 7/1/97	
					5 ft. / Geoprobe	<u>:</u>	NORTHING -891.82151			
LOG	GED	BY_6	6. Werk	man	<del></del>		EASTING_1038.73282	FINISH DATE 7/1/97		
			0	O)						
ĬĔ	GEOPROBE	nt)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL		MATERIAL DECORPTION	SYMBOL	REMARKS	표
ОЕРТН		RECOVERY (percent)	뜺	1 m G	SAMPLE ID		MATERIAL DESCRIPTION	N. N. N. N. N. N. N. N. N. N. N. N. N. N		DEPTH
ł	120	윤흥	AUG	훋						
					SM010TB20-0001		ne to coarse SAND, fine gravel, and silt. (SW)	0.0		
1-	-		0-1	0		<u> </u>	wn, clayey, fine to coarse SAND,	ó. · ó.	Sticipy tabe pastica	<b>!</b>
١.							el, trace silt, damp. (SC)		from 1 to 3 ft-bgs in twin boring.	-2
2-	1				}	-			tmir boring.	
3-	-		1–3	0	<u> </u>				Shelby tube pushed	-3
ļ		}							from 3 to 5 ft-bgs in twin boring.	L4
4-	1				SM010TB20-0305	•			in thin borning.	
5-	↓_	]	3-5	16.8		Same as	above			-5
ì	1	1			[ [					-6
6-	1\/				]					ľ
7-	1 Y									7
	IΛ									8
8-	╢ /	d .	1	ļ						٦
9-		30	ŀ	2.8						<b>├</b> 9
"	١.	A	i				y, fine to medium sandy CLAY, t and fine gravel, moist (CL)			
10-	$\Lambda \Lambda$	1				ti ace sii	and the graver, most (or)			10
11-	J۷		ŀ							<b>⊣</b> 11
1 "	۱٨									
12-	۱/۲	\l		1						H2
1,3	1	89		40.6						H3
13-	$\overline{\Lambda}$	7								1
14-	$A \setminus A$	/					•		Shelby tube pushed	H4
	١V								from 14 to 16 ft-bgs in twin boring.	45
15-	1٨								iii twiii boring.	
16-	4/\	d							Golden brown	-16
	1	30		438	SM010TB20-1617				product with sweet odor from 16.5-16.8	47
17-	T	7 30		430			ine to medium sandy SILT, trace		ft on acetate liner	"
18-	ړ	/			ļ .	fine gra	vel, trace clay, moist (ML)			-18
	$\mathbb{I}V$									
19-	<b>┧</b> ∤				SM010TB20-1820		•			H9
20-	۱/۱	\l							Water at 20.0 ft.	-20
] [	V	V				Bottom (	of boring 21 ft			┸╱╢
21	NOTE	<u>1_35</u> .		1_0	<u>.l. — </u>				-	-2

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

PROJECT NAME Bayer Corp., New Martinsville, WV  BORING LOCATION SWMU 010  WATER LEVELS  BORING SM010-T  DRILLING (ft-bgs) 20.2  G.S. ELEV.639.87	
BURING LOCATION N/A	
WELL LEVEL (ft-msl) N/ACASING ELEV. N	/A
DRILLING FIRM Terming Terming Terming	
DRILLING METHOD HSA to 5 ft. / Geoprobe NORTHING -947.26903	
LOGGED BY G. Werkman EASTING 1038.43458 FINISH DATE 7/	/97
BEMARKS  AUGER SAMP.  OI HNu Reading  (ppm)  OI SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL	DEPTH
SM010TB19-0001 Crushed stone aggregate (fill)	
0−1   0   Brown, fine to coarse SAND, some fine	H
gravel, few clay, trace silt, damp, (SW-SM)	-2
2 Brown, fine to coarse sandy CLAY, some fine to medium gravel and silt, damp. (CL)	ſ
3— 1-3 0 fine to medium graver and sirt, damp. (CL)	<b></b> -3
4-	-4
5— 3-5 0 Same as above, moist	-5
Saline as above, moist	
	<del> -</del> 6
	<u> </u> -7
8-//	-8
70 0	L
Dark gray, clayey, fine to coarse SAND,	P
trace fine gravel and silt, moist (SC)	<b>⊣</b> o
	H1
	-12
13————————————————————————————————————	<del> </del> 13
	-14
	<del>-1</del> 5
	Le
	<b>⊣</b> 6
Same as above, brown	<del>-1</del> 7
18-\/ Brown, fine to medium SAND, trace silt and	H8
19-  V	<b>-1</b> 9
20- /\  Water at 20.2 ft.	-20
Bottom of boring 21 ft	
NOTES:  1 Dooths and Elevations in feet unless otherwise noted.  5 ft-bas-feet below ground surface.	٠.

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

PROJECT NAME Bayer Corp., New Martinsville, WV							WATER LEVELS	BORING SM010-TB1	<u>8</u> ,	
				SWMU		<u>,</u>	DRILLING (ft-bgs) 10.4, 17.0		G.S. ELEV.640.633	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
					5 ft. / Geoprobe	e	207 50007		START DATE 7/9/9	97
		BY					NORTHING -321.39301		FINISH DATE 7/9/	
1							EASTING_1471.80961	<del></del>	1111011011111	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
-					SM010TB18-0001	Asphalt p	pavement.	0. 0.		
1-			0-1	68.9	0110101210 0001		e to coarse SAND with fine to ravel, few silt, damp, (SW-SM)	0.0		H
2-							wn to yellow-brown, clayey, fine	<u>                                      </u>		-2
3-			1–3	0		sandston	e SAND, few silt, fine to coarse e and shale gravel, subangular		٠	-3
4-					SM010TB18-0305	gravel, d	amp (SW-SC)			4
5-			3-5	0			andy CLAY, fine to coarse silt,			-5
6-	$\mathbb{N}$					damp, (C	L).			-6
7-	X									<del>  7</del> .
8-	$/\!\!/$		ļ							-8
9-		15		0	SM010TB18-0810					9
10-	$\mathbb{N}$	-				Brown to	light gray, clayey SAND, few silt,		Water at 10.4 ft.	10
11-	X						e gravel (SC)			11
12-	$/\!/$									12
13-		100		0		Dark gra	y, clayey SILT, trace fine sand,			<del> </del> 13
14-	$\mathbb{N}$					high plas	ticity, very moist (ML)			-14
15-	X									<del>-1</del> 5
16-	$/\!/$				SM010TB18-1517					<del>1</del> 6
17-		100		0					Water at 17.0 ft.	<del>-1</del> 7
18-	$ \cdot $									<b>⊣</b> 8
19-	$ \lambda $					Brown, fi	ne to medium sandy CLAY, few silt,	(///)	1	<b>-19</b>
20-	$\  \cdot \ $	\				wet (CL)				-20
21-	L_ OTE	75	<u> </u>	0	<u> </u>	BUTTOM C	f boring 21 ft		7	

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

4. Auger samples marked with depth intervals

**BORING LOG** 

						<del></del>			BORING SM010-TB17	ī
					rp., New Martinsville	e, WV	WATER LEVELS			_
				SWMU			DRILLING (ft-bgs) 13, 19.4		G.S. ELEV. <u>640.017</u>	
					ania Drilling Co.		WELL LEVEL (IT-IIISI)		CASING ELEV. N/A	
					o 5 ft. / Geoprobe	<u>;                                    </u>	NORTHING324.93552		START DATE 7/9/97	
_OGG	ίΕD	BYG	3. Werk	man			EASTING_1270.20977		FINISH DATE 7/9/9	<u> 17</u>
Т			<u> </u>				. Law i Aire	<del>-</del>	<del></del>	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	$\neg$				SM010TB17-0001		pavement	∕ o∷ o. ∴ o ∴		
1-			0-1	0	0.000		ine to coarse SAND, with fine to gravel, few silt, damp (fill)	0.0	Shelby tube pushed from 1 to 3 ft-bgs in	1 2
2-	1	'	'					0. 0	twin boring.	-
3-			1-3	0			clayey, fine to coarse SAND, few and silt, damp (SC)		Shelby tube pushed from 3 to 5 ft-bgs	-3
4-		1	3-5	0	SM010TB17-0305				in twin boring.	4 5
5 6-	$\sqrt{I}$									-6
7-	\ \									-7
8-	\\! 					Cork or	The sand	V.7.7.		-
9-	<u></u>	38		o	-		ay, clayey SILT, few fine sand, ravel, green sandstone, very moist			-9
10-	$\left  \cdot \right $					Brown, f	fine to coarse sandy CLAY, few silt, ine, subangular gravel, very moist		Shelby tube pushed from 10 to 12 ft-bgs	1
11-	,				SM010TB17-1012	(CL)			in twin boring.	<del> </del>
12-	<b>/</b> \'	90		0		ł	· 		Water at 12.1 ft.	H
3		90		0			clayey, fine to coarse SAND, few ce fine gravel, very moist (SC)			H
4-  5-	$\bigvee_{i}$					1	-			ļ'
16-	$\prod_{i}$					1				H
17	<u> </u>	85		0						H
18-	$\bigvee$				SM010TB17-1719		fine to coarse sandy CLAY, few silt,			H
19-		1				<u> </u>	fine to medium SAND, trace silt, wet		Water at 19.4 ft.	
- I	/ N	83		0		Bottom	of boring 21 ft		<u> </u>	

BORING LOG

BBO	IECI	TNAME	: Bay	er Cor	p., New Martinsvil	le, WV	WATER LEVELS	BORING SMO10-TB16		
				SWMU (			DRILLING (ft-bgs) 20.7		-G.S. ELEV.639.286	
DOM	LITAL	G FIRM	Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/A	
DRI	I TN	GMET	HUD.	HSA to	5 ft. / Geoprobe	=======================================	270,000,40		START DATE 7/9/97	
		BY_G					NORTHING = 270.33042		FINISH DATE 7/9/97	
LUG	ישט	10					EASTING_1033.11970	<del></del>	PINISH DATE	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM010TB16-0001	<u> </u>	ished stone aggregate (fill)	<del>V</del> 0		1. [
1-	i		0-1				LAY, with fine to coarse gravel to coarse sand, little silt, pieces			
2-			i				um, very moist (fill)	90		-2
1,	1		1-3	0				V 0		-3
3-								20		
4-	1				SM010TB16-0305					4
5-	<u> </u>		3–5	0						-5
	1	1								-6
6-	1\/							0.0		
7-	ł X						brown, silty CLAY, trace fine sand,			-7
8-	1/					medium p	lasticity, damp (CL)			8
	۱ ۱	100		0						-9 Í
9-	1	7	Į							[
10-	╢									10
11-	1 X	ľ	1							-11
	I۸	Ì								12
12-	7/ \	\								
13-	+	0		0						H3
14-	1\ /	/		į						H4
١	17			ŀ		Brown, fi	ine to coarse sandy CLAY, few silt,	77777		<del>-1</del> 5
15-	11						e gravel (CL)			1 1
16-	╢	/								<del> </del> 16
17-	1	38		0						<del>  1</del> 7
	<u></u>	1							CMOINTEIS 1900	<b>⊣</b> 8
18-	7\ /	/					ine to medium SAND, few silt, trace		SM010TB16-1820 collected from 18.7	
19-	ł۷				SM010TB16-1820	clay (SV	Y-3M)		to 20.7 ft.	H9
20-	11									-20
	$   \rangle  $	\l		1					Water at 20.7 ft.	-21
21-	1	100	<u> </u>	69.1		Bottom o	of boring 21.5 ft			- ئ <u>-</u> لـ
1 .	INTE	· ·								1

#### NOTES:

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

					- No. Mortinovi	llo WV	WATER LEVELS		BORING SM010-TB	15
					p., New Martinsvi	ile, wv	DRILLING (ft-bgs) 8, 11, 17		— G.S. ELEV.639.891	
BOR	ING	LOCAT	ION_	SWMU	nio Drillia a Ca		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
DRI	LLIN	G FIRM	4 Per	insylva	nia Drilling Co.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
					5 ft. / Geoprob	<u> </u>	NORTHING -430.85445		START DATE 7/8/	
LOG	GED	BY	6. Werk	man	·	<del></del>	EASTING_1058.46857		FINISH DATE 7/8/97	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	,	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	$\vdash$				SM010TB15-0001	Gray, cru	shed stone aggregate (fill)	100		
1-	1		0-1	0	010101010		ayey, fine to medium, subrounded	Q d		H
							gular, GRAVEL, little fine to coarse w silt, moist (GC)	V 0		-2
2-	]							<b>⊘</b> 6	•	-
3-	$\dagger$		1-3	0		Same as	above, very moist			-3
4-					SM010TB15-0305			ΩĞ		4
					0.1010.0			<b>∀</b> 0		
5-			3-5	0				0.0		15
6-	<b>払</b> /	ŀ								-6
	IV							000		_
7-	1 1	1			SM010TB15-0708			<del>0</del> .0	ţ	-7
- ∕ <mark>Ì</mark> 8-	$\{/\}$				34001010	Brown, m	edium to coarse SAND, trace fine SW)		Water at 8 ft.	-8
9-		50		11.9		Dark gra	y, silty CLAY, trace fine sand,			9
10-	]\ /					moist (C				<del>-1</del> 0
10-	7V	· .								
11-	-1 X	1	1			Brown fi	ne to coarse SAND, fine,	7777	Water at 11 ft.	<del>  1</del> 1
12-	]/∖						led gravel, wet (SW)			H2
12	<b>//</b> \						y, clayey SILT, trace fine sand,	7		
13-		50		0		\ damp (M		]		H3
14-	1\/					Brown, c silt, damp	layey, fine to medium SAND, few			14
	IV					Sirt, Gain,	, (30)			
15-	1 X									<b>H</b> 5
16-	4/1				SM010TB15-1517					<b>⊣</b> 6
ł	\ \	35		0				120120		.,
17-	1	33		"			ne to medium SAND, few silt, trace y moist (SW-SM)		Water at 17 ft.	<del>  1</del> 7
18-	<i>∖∖</i> ∤					5.5,, 15	y			<del>-1</del> 8
	11									H9
19-	٦٨	1								l a
20-	╢╽	]		į						-20
~ √ 21·		78			<u> </u>	Bottom o	of boring 21 ft			
,	10TE	S:					<b>-</b>			

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals

<sup>5.</sup> ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

			- Bav	er Cor	p., New Martinsvill	e WV	WATER LEVELS		BORING SM010-TB1	4
				SWMU		<u> </u>	DRILLING (ft-bgs) 18.3		G.S. ELEV.640.351	
					nia Drilling Co.		WELL LEVEL (ft-msi) N/A	<u> </u>	CASING ELEV. N/A	
					5 ft. / Geoprobe	!			START DATE 7/8/97	
		BY_G			·		NORTHING -484.75351	FINISH DATE 7/8/9		
.000		DI			···· · · · · · · · · · · · · · · · · ·		EASTING 1038.45314	<del></del>	FINISH DATE	T
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID -		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1-				-	SM010TB14-0001		shed stone aggregate with brown, parse sandy silt, damp, (fill)			H
2-						subround	ne to coarse SAND, fine to medium ed to subangular gravel, little ce silt, damp, (SW)	0.0	Shelby tube pushed from 1 to 3 ft-bgs., in twin boring.	-2
3-			1–3	0			ı	0.0	Shelby tube pushed from 3 to 5 ft-bgs.,	-3
4-					SM010TB14-0305			0.0	in twin boring.	4
5-	=		3-5	6.8				0.0		-5
6-	$\bigvee$							0.0		-6 -7
7- 8-	$\Lambda$	•						0 0		
9-		50		0		Dark gra damp (Cl	y, silty CLAY, trace fine sand, _)			9
10-	\									-10
11-	Ŋ		-	·			1			H
12-	$\backslash\!\backslash$									12
13-		.28		0		Light gra	y, clayey, fine to medium SAND,			<b>H</b> 3
14-	$\setminus \mid$						prown mottles, damp (SC)		Chalby tube suched	12
15-	X								Shelby tube pushed from 15 to 17 ft-bgs., in twin	15
16-	$/ \setminus$				-				boring.	HE
17-		100		0	SM010TB14-1618	Light gra	y, fine to medium sandy CLAY, few (SC)			17
18-							wn to gray, fine to medium SAND, damp grading to wet (SM)		Water at 18.3 ft.	H8
20-	$/ \setminus$						6 having 04 fA			-21
21		100		0		Bottom o	f boring 21 ft	133.5		L <sub>2</sub>

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

**BORING LOG** 

J `⊮ROJ	EC1	ΓΝΑΜΕ	Bay	yer Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMO10-TBI	3
				SWMU			DRILLING (ft-bgs) 18.3	- G.S. ELEV. <u>639.971</u>		
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
DRIL	LIN	G MET	HOD_	HSA to	5 ft. / Geoprobe	:	-557 7/392		START DATE 7/8/9	7
		BY_G					NORTHING -557.74382 EASTING 973.64765	FINISH DATE 7/8/9		
				Γ .	Т		EASTING	<del></del> -		Τ
DEPTH	BORYOBE	RECOVERY (percent)	AUGER SAMP DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1-			0~1	0	SM010TB13-0001		ushed stone aggregate with brown, coarse sandy silt, trace clay, damp )			-
2-	l				}	Brown fi	ine to coarse sandy CLAY, little			-2
3-			1–3	0		fine to c	oarse subangular gravel, trace silt,	A 0		-3
4-					SM010TB13-0305	trace cr	ushed stone, damp (CL)			-4
5-	-	1	3-5	0			ine to coarse sandy CLAY, few			-5
6-	N /					gravel, t	race silt, damp (CL)			-6
	IV				ļ	٠				-7
7-	$ \Lambda $	,								'
8-	$\  / \ $									8
9-	<u> </u>	53		0						9
10-	$\mathbb{N}/$									<b>+</b> 0
	V							7777		
11-	١٨					Dark gra ∫ damp (C	ay, silty CLAY, trace fine sand, CL)			H1
12-	$\  / \ $					Brown, c	clayey, fine to medium SAND, trace			12
13-	<u> </u>	70		0		silt, dam	p (SC)			<b>-13</b>
14~	$\Lambda$	1								-14
14-	V									
15-	X		Ī							<b>⊣</b> 15
16-	/\									<del>-1</del> 6
17-	<u> </u>	100		0	SM010TB13-1618					-17
	1	1								
18-	\/						ine to medium SAND, few silt, damp		Water at 18.3 ft.	<del> </del> 18
19-	X				.	grading	to wet (SW-SM)			-19
20-	/\									-20
I	/	80		l n		Bottom	of boring 21 ft			$\perp_{21}$
21- 1 N	OTE	S:	. –							41
	2. US 3. Ge	SCS Cla eoprobe	ssifica sampl	tion bas es mark	n feet unless otherwed on visual-manual ed with crossed box with depth intervals	procedure	5. ft-bgs-feet below ground su s 6. ft-msl-feet above mean sea		Page 1 of 1	

**BORING LOG** 

				vor Cor	n New Martinevill	الما ها الما ها	WATER LEVELS		BORING SM010-TB	12
					p., New Martinsvill	IC; WV	DRILLING (ft-bgs) 4.5		- G.S. ELEV.639.933	
				SWMU			WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	
					nia Drilling Co.					
					5 ft. / Geoprobe	<u></u>	NORTHING1007.59987		START DATE 6/30	
_OG(	ED	BY_	3. Werl	man			EASTING 1452.97805		FINISH DATE 6/3	3/9/
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		 	SYMBOL	REMARKS	DEPTH
						Asphalt	pavement			
					SM010TB12-0001		ushed stone aggregate, fine to	4		
1-			0-1	0		coarses	andy silt, damp (fill)	40		H
								2		
								0		
2-										-2
								2.4		
			1-3	0	İ					
3-						Dark bro	own, fine to coarse sandy CLAY,	7.7		-3
							ne gravel, damp to wet (CL)			
		•								1.
4-					SM010TB12-0305	Same as	above.			F
									Water at 4.5 ft.	
_			3-5	29						-5
5-										۱
	N 1									
6-	$\  \ $						··			F
0	$\mathbb{N}$				1	•				
	W	]		ļ						
7-	¥									-7
•	١٨						1			
	М	<u> </u>								
8-	W	•								ŀŧ
	$\  \cdot \ $				}	Cc-		7/		
	/ I				<u> </u>	oreen, s	ilty SHALE	1//		
9-		33		2.1						-
	I V	[					1			
10-	<b>Ι</b> Λ					Concret			SM015TB12-1010	H
	$\langle \ \ \rangle$	13		>1999	SM010TB01-1010	Concret	; 		collected at 10.0–10.5 ft.	
		<u> </u>		<u> </u>		Refusal;	bottom of boring 10.5 ft		10.0-10.0 It.	

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

				_						
SPR(	LIECT	r NAME	: Bay	er Cor	p., New Martinsvi	le, WV	WATER LEVELS	BORING SMO10-TB11		
				SWMU		·	DRILLING (ft-bgs) 8.2, 20.1		G.S. ELEV.640.185	
					nia Drilling Co.		WELL LEVEL (ft-msl)_N/A		CASING ELEV. N/A	
					5 ft. / Geoprob				START DATE 6/30/	
		BY					NORTHING -1013.03140	<del></del>	FINISH DATE 6/30/97	
LUC	ששטכ	BY					EASTING_1228.12460		FINISH DATE 07007	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID .		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM010TB11-0001	Asphalt p		ō. o		
1 1	-		0-1	0			ne to coarse SAND with fine to ravel, few silt, crushed stone,	0 0	Shelby tube pushed from 1 to 3 ft-bgs.	Ħ
2	-					damp (S		0.00	in twin boring.	-2
3			1–3	0				00.	Shelby tube pushed	-3
4				•	SM010TB11-0305	Same as	above, very dark brown to black	0.0	from 3 to 5 ft-bgs. in twin boring.	<u> </u> 4
5	<u> </u>		3-5	0				0 0	in twin boning.	-5
	1 /						y, clayey, fine to coarse SAND, trace fine sub-rounded gravel,			-6
6	-1V		<u> </u>				gments, very damp to wet, (SC)		Shelby tube pushed from 6 to 8 ft-bgs.	
7	$\downarrow \downarrow \downarrow$				SM010TB11-0608				in twin boring.	7
8	$\dashv / \mid$								Water at 8.2 ft.	-8
9	· <del>       </del>	68		11.4		Dinak fir	on to copyed andly SILT trace			9
10	-∤\ /	}					ne to coarse sandy SILT , trace rel, wet (GM)			<b>4</b> 0
11	1						·			11
1	ТΛ									H2
12	Ή/\									
13	1	63		0	1		wn, clayey, fine to coarse SAND, gravel and silt, very moist (SC)			<b>⊣</b> 3
14	$\dashv \setminus /$					\	wn, CLAY, trace fine to medium			<b>⊣</b> 4
15	;-  X					sand and	silt, high plasticity, very moist,			<b>-1</b> 5
16	//					(CH)				<b>-1</b> 6
17	\	33		6.4						H7
	Λ.	1			CMOIOTER 1710	1	layey, fine to coarse SAND, trace moist, (SC)			-18
18	٦V				SM010TB11-1719	3111, VEI Y	most, (00)			
19	<b>'</b>   [									<del>1</del> 9
20	\ \⊬								Water at 20.1 ft.	-20
2	1—(	100		256.2			-brown, silty, fine to medium SAND,			-21
22	.]\ /					damp, (S	D₩)			-22
23	٦V		}							-23
	ТΛ							:-		
24	'T/ \	93		76.8		Rottom o	of boring 25 ft			-24
25	NOTE	<del></del>	L	1.70.0		) Bottom C	. Dorning to it	<u></u>		<del>1</del> 25
1.	.,015				- 44l4b		E ft-has-foot bolow around surf:	200		

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

**BORING LOG** 

DDO	יייי		- Bay	er Cor	p., New Martinsvill	e. WV	WATER LEVELS	BORING SM010-TB10		
				SWMU			DRILLING (ft-bgs) 20.1		-G.S. ELEV.640.112	
					nia Drilling Co.	<del></del>	WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	4
					5 ft. / Geoprobe	<del></del>			START DATE 6/30	
		BY					NORTHING1034.53014		FINISH DATE 6/30	
LOG	3EU	BY	J. WEIT	CINCOL !			EASTING_1127.96627	<del></del>	FINISH DATE 0700	707
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			0-1	0	SM010TB10-0001		pavement wn, fine to coarse SAND with fine	0.0		4
1	'						n gravel, few silt, trace crushed	0 0	:	Γ
2-						stone, (S	SW-SM)	0.0		-2
3-	ļ					Dark bree	wn to gray, fine to coarse sandy			-3
4-					SM010TB10-0305		with the gray, time to coarse saidy w fine gravel, trace silt, very moist			-4
5-		}	3-5	258					•	-5
6-	<b>/</b> /					SAND, tra	y to brown, clayey, fine to coarse ace fine gravel, high plasticity,		•	-6
7-	IJ.					very mois	st. (50)			7
8-							1 1			-8
9-	<u> </u>	28		18.2		Dark gra	y, clayey, fine to coarse SAND,			9
10-	$\Lambda$ /						e gravel and organic matter, wet			40
11-	ĮV.									<b> </b>
12-										<b>⊣</b> 2
13-	<u> </u>	48		0		Prous al	ayey, fine to coarse SAND, trace			<b> </b> ⊢13
	$\Lambda$						rel and silt (SC)			H4
14-	$\int \!\!\! \int$						,			<b>⊢</b> 45
15-						·				H6
16-	V	88		6.8						H7
17-				0.0		Same as	above.			
18-										H8
19-	1				SM010TB10-1820				·	H9
20-	$\ \cdot\ $			4.5			ine to med. SAND, tr silt, wet (SW)		Water at 20.1 ft-bgs.	-20
21-	OTE	85	<u> </u>	12	L	Bottom o	of boring 21 ft	<u> Euriciil</u>		<u></u>

- 1. Depths and Elevations in feet unless otherwise noted
- 2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

#### **BORING LOG**

·	PROJ	ECI	NAME	: Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING_SM010-TB09	
- 1					SWMU			DRILLING (ft-bgs) 17.2			
						nia Drilling Co.		WELL LEVEL (ft-msi) N/A	<del> </del>	CASING ELEV. N/A	<u></u>
						5 ft. / Geoprobe	!		START DATE 6/30	/97_	
			BY_G					NORTHING1030.20889		FINISH DATE 6/30/97	
ŀ								EASTING_1097.85876		FINISH DATE	
	ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	1-			0-1	0	SM010TB09-0001		d gray, crushed stone aggregate to coarse sand, trace silt and	000		4
ļ	2-						J. Z. Y (1.11.)	,	0.00		_2
ı	-2								0.0		
۱	3-			1–3	0		Dark bro	wn to dark gray, fine to coarse	<del>\</del> 0		-3
	4-		1			SM010TB09-0305		CLAY, little fine to coarse sand, t, moist (CL)			-4
١	5			3-5	0		., 200 0	,,			-5
١	_	\							00		1
١	6-	$\setminus \mid$							0 C		-6
	7-	X							0 0		-7
<u>'</u> }	8-	$\Lambda$					Same as	above.	0 0		-8
		$/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	8	i	23						]
	9-				23			y, clayey, fine to coarse SAND,			9
	10-	$\setminus / \mid$		:			trace fin	e gravel and silt, very moist,			10
	11-	V									H1
		$\Lambda$				SHOUST DOG MAS				•	1,0
١	12-	$/\setminus$				SM010TB09-1113					H2
	13-		60		826		Same as	above.			H3
İ	14-	$\setminus / \mid$									14
ı	45	V									<del> </del> 15
	15-	$\Lambda$									"
	16-	$/  \setminus$				SM010TB09-1517	Fine to c	coarse sandy CLAY, few silt, moist			⊣6
ı	17-		55		8.2	-	to wet (			Natar at 47.0 st	-17
		\ /								Water at 17.2 ft.	H8
	18-	M				}					
	19-	X			ļ						-19
	20-	$/ \setminus$									-20
	21-		90		332		Bottom o	f boring 21 ft		· · · · · · · · · · · · · · · · · · ·	,
4	NO	TES		d Elow	ations !-	n feet unless otherw	ico notad	5 ft_has_foot holaw around our	faco		٤'
	2	. US	CS Clas	sificat	ion base	n reet uniess otherw ed on visual-manual ed with crossed box	procedures	<ol> <li>ft-bgs-feet below ground sur</li> <li>ft-msl-feet above mean sea l</li> </ol>	evel	Page 1 of 1	
l	4	. Aug	ger sam	ples m	arked wi	ith depth intervals				Page 1 of 1	

PROJ	EC1	NAME	- Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS			BORING GING 150	<del>-</del> _;
				SWMU			DRILLING (ft-b			G.S. ELEV. <u>639.489</u>	
					nia Brilling Co.		WELL LEVEL (ft	-msi)N/A		CASING ELEV. N/A	
					5 ft. / Geoprobe			144 85445		START DATE 7/1/97	
		BY_G				<i>2</i> '	NORTHING -10 EASTING 1039	9 57761		FINISH DATE 7/1/9	7
				<del></del>			EASTING 1000	7.07101	1 1		
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCR	RIPTION	SYMBOL	REMARKS	ОЕРТН
					SM010TB08-0001	fine to c	own, crushed stone oarse sandy silt, tr				1
1-						damp (fi	ill)			Shelby tube pushed from 1 to 3 ft-bgs in	['
2-						Brown, c	layey SAND, trace	fine to coarse	<u></u>	twin boring.	-2
3∸			1-3	0		gravel, m	noist (SC)		4	Challey Julya ayahad	-3
3-	Same						above			Shelby tube pushed from 3 to 5 ft-bgs	
4-	sм010ТB08-0305						i		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	in twin boring.	4
5-	3-5 0 Rrow								100		-5
Ů	\ /		<u> </u> 				layey, fine to coars vel, moist (SC)	se SAND, trace			
6-	fine						ver, moist (30)				-6
7-	Y						 				-7
	$ \Lambda $										
8-	$/ \setminus$			1	SM010TB08-0709		İ				8
9-		68		1.2		Same as	above.			Water at 9 ft.	-9
`	N /						ļ				-10
10-	W										
11-	X.		1				i				<del> </del> 11
		İ					i				12
12-	/ N										
13-		23		0		Dark gra	ay, clayey, fine to c	oarse SAND,		Shelby tube pushed	<del>-1</del> 3
14-	N /				SM010TB08-1315	very moi	ist (SC)			from 13 to 15 ft-bgs in twin boring.	-14
l ''	W.						1			_	
15-	ΙX						1				H5
16-	$ /\rangle$						ı			,	H6
	/ N	33		0		Brown, c	layey, fine to coar	se SAND, moist		·	H7
17-		33		"		(SC)		•		Water at 17 ft.	."
18-	\ /						1				-18
	1						1				-19
19-	1						!				"
20-	$ / \setminus$		ŀ		]		I				-20
21-		70		0		Bottom	of boring 21 ft			<u> </u>	$\perp_{2!}$
ľ	OTE	ς٠					Ì				ζ.

1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes

4. Auger samples marked with depth intervals

5. ft-bgs-feet below ground surface

6. ft-msl-feet above mean sea level

Page 1 of 1

**BORING LOG** 

PRO	JEC.	T NAM	Bay	yer Cor	p., New Martinsvil	ie, WV	WATER LEVELS		BORING SM010-TB	
				SWMU			DRILLING (ft-bgs) 9.0, 19.0		-6.S. ELEV. <u>639.693</u>	
					nia Drilling Co.	<u> </u>	WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	4
					5 ft. / Geoprobe	9	1000 0000		START DATE 7/3/9	97
			3. Werl				NORTHING -1098.86089 EASTING 1008.44172	<del></del> _	FINISH DATE 7/3/	
-		Ι		ı	<del> </del>		EASTING_1000.44172			1
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1-			0-1	0	SM010TB07-0001		ushed stone aggregate, fine to andy silt, damp (GM)	40		H
2-						Brown, fi	ne to coarse sandy CLAY, trace			-2
							vel, moist to wet (CL)			
3-			1–3	50						-3
4-					SM010TB07-0305					4
ٔ ا			3-5	167.3						_
5-	Same						above, with trace crushed stone te			-5
6-										6
7-	l X									-7
`. .¦. 8−	$ /\rangle$		·		SM010TB07-0709					8
9-	<u> </u>	50		173.2			-		Water at 9 ft.	9
10-	N/									-10
11-	Į V				-					-11
12-					SM010TB07-1113		layey, fine to medium SAND, few e fine gravel, moist to wet (SC)			<del> </del> <del> </del> 12
13-		93		761.3		311, 1100	e line graves, moist to wet (50)			<b>–13</b>
14-	N/									- 4
15-	V				<u> </u>					<b>-15</b>
16-					SM010TB07-1517				-	<b>⊣</b> 6
17-		43		217.1			•			<b>17</b>
18-	$\backslash\!\!\!/$									- <del>1</del> 8
19-	V								Water at 19 ft.	<b>⊣</b> 19
20-		:				Brown, fi	ne to coarse SAND, damp (SW)		Hatel at 10 It.	-20
	$\setminus$	65		>1999		Bottom c	of boring 21 ft		•	<b>.</b>
21− ′ N(	OTES				<u> </u>					21

- 1. Depths and Elevations in feet unless otherwise noted
- 2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes

4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

PROJE	ECT	NAME	- Bay	yer Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING SMUID- 18	<u>06</u> ,
				SWMU			DRILLING (ft-bgs) 9.0		— G.S. ELEV. <u>640.031</u>	
DRILL	TN	G FIRM	<sub>d</sub> Per	nnsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	Α
					5 ft. / Geoprobe				START DATE 6/25	/97
		BY					NORTHING			
LUGG	EU	BY	J. 11C/1				EASTING_1074.13537	<del></del> =	FINISH DATE 6/25	<del>,, ,,</del>
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
1-			0-1		SM010TB06-0001		ushed stone aggregate, fine to sandy silt, damp (fill)			4
							ine to coarse sandy CLAY, trace			
2-						tine gra	vel and silt, moist (CL)			-2
3-			1-3	0			own, fine to coarse sandy CLAY, coarse gravel, trace silt, moist (CL)			-3
4-					SM010TB06-0305					-4
5-			3-5	0						5
6-	$\bigvee$									-6
7-										-7
8-	$\left  \cdot \right $	:			SM010TB06-0709					-8
9		38	:	0		Same as	above, saturated		Water at 9 ft.	9
10-	$\setminus \! / \! \mid$									<b>-1</b> 0
11-										11
12-	$\left  \cdot \right $									H2
13		65		0	3	Bottom	of boring 13 ft			13,
MO	TEC	٠.								

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes

- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

,     	) IEC	T NIAME	. Bay	er Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING SM010-TB0	5
				SWMU			DRILLING (ft-bgs) 10.4, 19.1		G.S. ELEV.639.570	
					nia Drilling Co.		WELL LEVEL (ft-msi)N/A		CASING ELEV. N/A	
					5 ft. / Geoprobe		4500,00004		START DATE 6/26/	97_
		BY_				, <del></del>	NORTHING -1508.90194	<del></del>	FINISH DATE 6/26/	/97
100	7025				1		EASTING_1035.96888	<del></del>	I INION DATE	
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM010TB05-0001		pavement	0: 0	• •••	
1 2			0-1			-	ne to coarse SAND with fine to ravel, some slag, trace silt, damp	00	Shelby tube pushed from 1 to 3 ft-bgs in twin boring.	-1 -2
		ļ		_	}		e to coarse sandy CLAY, fine		_	
3	7		1–3	0		gravel, ti	race silt, very damp (CL)		Shelby tube pushed from 3 to 5 ft-bgs	-3
4	4	}			SM010TB05-0305				in twin boring.	<b>├</b> ₄
5		]	   3−5	0						-5
"	1	1				•	brown, fine to coarse sandy CLAY, ledium gravel, trace silt and			ľ
6	-{\/						ne fragments (CL)			-6
7	١٧.									7
7	$\Lambda$									
√¦ 8	1/ \				SM010TB05-0709					<del> </del> 8
9	<u> </u>	35		0		Same as	above, wet			9
	1	1								-10
10	71/								Water at 10.4 ft.	["
- 11	-  X									-11
١.,	1/\								Obalbi, Juba andrad	H2
12	7/ \	l					rown, clayey, fine to medium		Shelby tube pushed from 12 to 14 ft-bgs	"
13	+	50		0		SAND, tr	ace fine gravel, damp (SC)		in twin boring.	-13
14	_\\ /	1		ł						14
"	V					Dark bro	wn, fine to coarse sandy CLAY,			
15	7 X					few silt,	wet (CL)			H5
16	4/\									<b>⊣</b> 6
1 _	<b>/</b> /	15		0						,
17		GI I	!	"			layey, fine to coarse SAND, fine race silt, wet (SC)			H7
18	A M					gravei, ti	idde siit, wet (30)			<del> </del> 18
	11	į							M	-19
19	$\Lambda$						-	-	No sample collected	"
20	- /\									20
I 		0				Bottom c	of boring 21 ft			L <sub>21</sub>
-	NOTE		Fl	_4! :	n feet linless otheri		5 ft-bas-feet below around sur	face		

- 1. Depths and Elevations in feet unless otherwise noted
- 2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

				er Cor	n New Martinsville	- WV	WATER LEVELS		BORING SM010-TB	04
					p., New Martinsvill	<del>C, N</del> V	DRILLING (ft-bgs) 17.1		G.S. ELEV.638.760	
				SWMU			WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	
					nia Drilling Co.				START DATE 6/25	
					5 ft. / Geoprobe		NORTHING -1510.47184			
_OG(	3ED	BY	G. Werk	man			EASTING_983.19642		FINISH DATE 6/25	5/9/
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID .		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					SM010TB04-0001	Asphalt i	pavement	0. 0.		
1-			0-1				ne to coarse SAND with fine to	0.0		H
2-	2-						ravel, trace silt, damp, (SW)	0 0		-2
3-			1-3	0			ayey, fine to coarse SAND, fine			3
4-	4-   SM010TB04-0305						race silt, damp (SC)			-4
5-			3-5	.6		Camo ac	above, some brown and			-5
	Same					yellow-b	rown layers and trace medium			6
,	grave					gi avei				7
7- 8-	I۸			    -						8
9-		100		13.8						l <sub>a</sub>
10~	N/									40
11-	IV		ĺ							
12-	I۸									H2
	V	100	<u> </u>	0			y to brown, fine to medium sandy w clay, damp (ML)			H3
13-	\ /						y, fine to coarse sandy CLAY, fine ew silt, damp (CL)			14
14-	W					Brown, f	ine to coarse sandy SILT, few			_ <del>-</del> 15
15-	11					clay, da				1
16-	V				SM010TB04-1517					<b>⊣</b> 6
17-		100		0			ine to medium SAND, trace clay,		Water at 17.1 ft.	-17
18-	╢					wet (SC	·)			-18
19-	$\{\chi\}$	1							•	<b>H</b> 9
20-	{/\								•	-20
21-	<u> </u>	100	<u> </u>	0		Bottom	of boring 21 ft		<del></del>	<u></u>

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

		-		<del></del>					
PROJECT	NAME	Вау	er Cor	p., New Martinsville	e, WV	WATER LEVELS		BORING SMO10-TB	03
BORING						DRILLING (ft-bgs) 10.9		—G.S. ELEV.640.276	
DRULIN	GETEN	, Pen	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	Α
				1 ft. / Geoprobe				START DATE 6/18/	
				77107 00001000		NORTHING -2519.25831			
LOGGED	BY	. werk	ılları			EASTING 1071.10804		FINISH DATE 6/18	/91
DEPTH GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			· ·	SM010TB03-0001	Crushed	stone aggregate (fill)	6000	propri especición y y a	<u> </u>
1		0-1		SMUIU1 BU3-0001		prown to dark brown, fine to coarse			4
1 1 1						ILT, few clay, trace crushed amp (ML)	1		1.
2-\/					Stolle, u	מווף (אוב)	1		-2
3- V									-3
4- / \				SM010TB03-0305					-4
5	63		1.2						-5
l °777					Same as	above			ľ
<b> </b> 6- \ /				1					-6
<b>.</b>  \/!									_
<u>,</u> 7⊣							12.4		-7
8-1/\							:-		-8
î VV									
9 (	85		0		Same as	above, dark brown to dark gray		SM10TB03-0810 collected from 8.9	P
10-\\ /				SM010TB03-0810				to 10.9 ft.	-10
I "7\/!									"
<b>1</b> 11-}								Perched water at	⊣ı
L . [/\!								10.9 ft.	
12-/ \									H2
13-	90		0		Same as	s above, dark gray and green,	:-		H3
1 N /			1			ne gravel, damp	:-		
14-\/		İ					11		H4
15- V									H5
I "   ^							1		"
16-//									⊣6
I / V	20		8.9	-			1		H7
17 17	-	ļ			No reco	very			"
18-\\/		]							<del> </del> 18
<b>i</b> 171		1	1						
19 <del>- </del>							:-		H9
<sub>20</sub> _ /\		ĺ							20
[ [ ]		1			B 12	of hariag 01 ft			
21			<u> </u>		Bottom	or doring 21 ft	1. —	<u>-</u>	<u>-L21</u>
20-/ 21- NOTES	0_				Bottom	of boring 21 ft		· · · · · · · · · · · · · · · · · · ·	

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

					<del></del>	<del></del>	T		CMO10 TEO	
PROJ	EC1	T NAME	Bay	er Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING SM010-TB0	<u>~</u> ;*
				SWMU			DRILLING (ft-bgs) 7, 19.7		- G.S. ELEV. <u>639.932</u>	
DRI	I TN	G FIRN	e Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
DRIL	LIN	G MET	HUD 	HSA to	5 ft. / Geoprobe	·	2505 45020		START DATE 6/18/9	97
			6. Werk				NORTHING -2525.15939		FINISH DATE 6/18/	
LUGG	יבט	BY	J. 11 C. 11				EASTING_1046.10753		FINISH DATE	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM010TB02-0001	<u> </u>	stone aggregate (fill)			
1-		1	0-1			Brown, s	ilty, fine SAND, damp (SM)		Shelby tube pushed	<b>†  </b>
		ļ							from 1 to 3 ft-bgs in twin boring.	-2
2-									(will borning.	
3-			1-3	0		Same as	above.		Shelby tube pushed	-3
1									from 3 to 5 ft-bgs	4
4-	ļ				SM010TB02-0305				in twin boring.	[ ]
5-		1	3-5	0		Same as	above, silty clay stringers			-5
1	N /	1						[]		
6-	I\	ł			SM010TB02-0507			<u> </u>		6
7-	I V								Water at 7 ft.	7
'	١٨	1		Ì	<u> </u>				713(3) Gt 1 11	•
8-	{/ \		ļ		{				Shelby tube pushed	₽.
9-	<u> </u>	80		0				· · -	from 7 to 9 ft-bgs in twin boring.	
"	1	1						<u></u>		
10-	<b>{\ /</b>							1		<del> </del> 10
l	I۷							<u> :-</u>		-11
11-	١٨	ľ								"
12-	١/ /				1			<u> </u>		-12
	<i>ا</i> ا	٠	}							
13-		100	1	0		Grav, fir	ne to medium sandy CLAY, little silt,		Shelby tube pushed from 13 to 15 ft-bgs	13
14-	$\mathbb{N}/$					wet (CL			in twin boring.	-14
15-	$\left\{ \right\}$									<b>⊣</b> 5
16-	$   \rangle \langle   \rangle$									<del>1</del> 6
17-		50		0						-17
18-	1\ /	/	1						SM10TB02-1819	⊣8
	I۷				SM010TB02-1819				collected from 18 to	L
19-	1				3MO101 B02-1019			7777	19.7 ft.	H9
20-	${//}$					grading	ay silty CLAY, little fine sand, wet to saturated (CL)		Water at 19.7 ft.	-20
21-		50	<u> </u>	0	<u> </u>	Bottom	of boring 21 ft	V///2		َ رُحِل
	OTE	S:								\.

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

.∎ `PRO√	JEC <sup>-</sup>	T NAME	- Bay	er Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING SM010-TB0	01
				SWMU			DRILLING (ft-bgs) 13.9		- G.S. ELEV. <u>640.180</u>	
DRIL	.LIN	G FIRM	1 Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	<u> </u>
					5 ft. / Geoprobe	:	0527.00.402		START DATE 6/18/	97
			3. Werk				NORTHING -2537.60463 EASTING 1022.28269	<del></del>	FINISH DATE 6/18	
	Γ.	Т			1		EASTING_TOZZ.ZOZOG		11110110111	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM010TB01-0001		stone aggregate (fill)			
1-			0-1	1			rown, silty fine SAND, trace gravel, damp (fill)			H
2-										-2
			2.5~3	10		Brown, f	ne SAND, damp (fill)	7575		-3
3-			,	.~						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
4-	4-   SM010ТВ01-0305									⁴
5-			3-5	0						-5
	$\ \ /$	1			]					
6-	V					Dark bro	wn to dark gray, silty CLAY, few		-	6
7-	X						oarse sand, trace fine gravel, f organic matter, (fill)			-7
`\ → 8−					ļ <u></u>		k brown to black, TDI residue,	<u>                                   </u>		8
i	$V \setminus$					loose, dr		×××		
9-		73	ŀ	12		_		×^×		19
10-	$\mathbb{N}$		ļ			Same as	above	×××		-10
	V		•					××		4
11-	l٨		}					××		-11
12-	<b>!</b> /\							x x	SMIOTB01-1113	12
13-		70		5.6	SM010TB01-1113	C	<b>ah</b> ayo	×××	collected from 11.9 to 13.9 ft.	-13
"	1					Same as	above	× ×		
14-	$\mathbb{N}$			}				×××	Water at 13.9 ft.	H4
15-	\			ļ				×^×		<b>–</b> 15
								×××		مد_
16-	/ \							××		<b>⊣</b> 6
17-	<u> </u>	88		2.2				××		-17
18-	N /	1						^×^		-18
""	V							×××		
19-	X		Ì					× Xnyx		<b>⊣</b> 9
20-	/				'	Dark gra (ML)	y, clayey SILT, little fine sand			-20
Į.	V	100		40.6			of boring 21 ft			
21- N	OTE:		<u> </u>	1 30.0		DOLLOW				-1-21
1	1. De	epths ar			n feet unless otherw ed on visual-manual		5. ft-bgs-feet below ground s 6. ft-msl-feet above mean se		٠.	•
3	3. Ge	eoprobe	sample	es marke	ed with crossed box ith depth intervals		. The man root above moult be		Page 1 of 1	
<u> </u>	. AU	acı adı	יוףו באולוי	aineu W	ini debrii iiirei vais				<del>-</del>	

PRO.I	ECT	T NIAME	- Bay	yer Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOO9-TB	<u>03                                    </u>
				SWMU			DRILLING (ft-bgs) 12.5		G.S. ELEV.640.418	<u> </u>
DONI	ING LITAL	C ETDI	A Per	nsvlva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
					5 ft. / Geoprobe				START DATE 6/24/	li i
					, 5 14. 7 55561-525	· · · · · · · · · · · · · · · · · · ·	NORTHING -1925.23791	<del></del>		
LOGG	ED	BY	6. Werk	VIIIaii			EASTING 987.96166		FINISH DATE 6/24	/91
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
1-			0-1	1.2	SM009TB03-0001		wn, crushed stone aggregate, fine e sandy silt, trace clay (fill)	1000		4
	2-						·	2	•	2
3-	Dark t						wn, fine to coarse sandy CLAY, e gravel and silt, damp (CL)			-3
4-					SM009TB03-0305					4
5-			3-5	1.9						-5
6-	Dark b						wn, clayey, fine to coarse SAND, e gravel and silt (SW-SC)			-6
7-	X			,		Same as	above, dark gray			7
8-	$/ \setminus$					Came do	aboro, dark gray			-8
9-	<u> </u>	85	:	0						9
10-	$\setminus /$									-10
11-	X				SM009.T.B03-1012					-11
12-	$/ \setminus$								Water at 12.3 ft.	-12
13-	$\left( -\right)$	60		1.7		Black TD	I residue			-13
14-	$\setminus /$					No recov	ery			-14
15-	X									-15
16-	//	:								<del>-1</del> 6
17-	$\left\langle \cdot \cdot \right\rangle$	0				No recov	erv	-		<del>-1</del> 7
18-							•			-18
19-	19-									19
20-										-20
21-		0	<u></u>			Bottom o	f boring 21 ft		<del> </del>	1 <sub>21/</sub> *
N	DTES	S:	:				E ft-has-foot balow ground sur	<b>.</b>		` "

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface6. ft-msl-feet above mean sea level

**BORING LOG** 

- \[ \]	, II(C)	T NIAME	- Bay	ver. Cor	rp., New Martinsville	e. WV	WATER LEVELS		BORING SMOO9-TBO	)2
				SWMU			DRILLING (ft-bgs) 19.4		-G.S. ELEV.640.424	I
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	l
UR!	LLIN	0 11KM	1	HSA tr	5 ft. / Geoprobe				START DATE 6/24/	
DR.	LLIN	G METI	HOD	mon (C	7 0 1t. 7 Geoprobe		NORTHING -1958.98118			
LO	GED	BY_C	s. werk	illan			EASTING_942.22748		FINISH DATE 6/24/	<u></u>
рертн	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
1	_		0-1		SM009TB02-0001		wn, crushed stone aggregate, fine e sandy silt, damp (fill)	100	Shelby tube pushed from 0 to 2 ft-bgs	H
2			1-3	0			ė.		in twin boring.	-2
3			1-3		SM009TB02-0305	Same as	above, dark gray	7 6 P	Shelby tube pushed from 3 to 5 ft-bgs in twin boring.	ტ 4
5	<del> </del>		3-5	0				-04		-5
6	4\/	, 			-			0,7		6
7	$\frac{1}{2}$							1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		7
) e	$- / \setminus$							100		В
٩	+	20		0						9
10	$\exists orall$									H0
	$\Lambda$							100		H
12	\ \	28		0				000	Shelby tube pushed from 12 to 14 ft-bgs in twin boring.	-12 -13
14	1					-	own, fine to coarse sandy SILT	V_0		-14
15	$A \setminus X$					(ML)				<del>-1</del> 5
16										<b>-1</b> 6
17	+	100		3.7					SM09TB02-1719	<del>-1</del> 7
18	$\dashv \backslash /$			ŀ	SM009TB02-1719				collected from 17.4 to 19.4 ft.	18
19	ТΛ						e to medium GRAVEL, trace fine to and (GW)	0000	Water at 19.4 ft.	-19 -20
	<u> </u>	93	<u> </u>	3.3		Bottom o	of boring 21 ft	63		
۔ ایب	NOTE	S:	4 E1		n foot unloss otherw	امملمت سدن	5 ft-has-feet helow around sur	face		

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 Geoprobe samples marked with crossed boxes
 Auger samples marked with depth intervals

5. ft-bgs-feet below ground surface

6. ft-msl-feet above mean sea level

Page 1 of 1

PRO.	EC:	Τ ΝΔΜΙ	- Bay	yer Coi	rp., New Martinsvill	e, WV	WATER LEVELS		BORING SMOO9-TE	<u> 301 </u>
				SWMU		· · · · · · · · · · · · · · · · · · ·	DRILLING (ft-bgs) 19.6		G.S. ELEV.640.320	
					nia Drilling Co.	<del></del>	WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
							:		START DATE 6/24	
					5 ft. / Geoprobe		NORTHING -1954.58071		1	
LOGG	ED	BY_	. wer	man		<del></del>	EASTING 901.45548		FINISH DATE 6/24	1/97
	ш		٠.	ō.						
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					SM009TB01-0001	Brown, c	rushed stone aggregate (fill)	V-0		T
1-			0-1			Brown fi	ine to coarse sandy SILT, few	- <del>[-2</del> )		H
2-						clay, dar				-2
										-
3-			1–3	0	-	Fine to d	coarse sandy CLAY, trace fine			<del> </del> -3
4-					SM009TB01-0305		nd crushed gravel (CL)			4
7	•				3M0091B01 0303					'
5-			3-5	20.1						-5
٥	\ /									6
6-	V									Γ
7-	X	-								-7
8-	$\Lambda$									В
	/ \									
9-	\	45		9.2			coarse sandy CLAY, trace fine			-9
10-	\					gravel (	CL)			H0
	V	}			<u> </u>					
11-	X			ļ		-	own, silty, fine to medium SAND,			- 11
12-	$\Lambda$					trace cla	ay (SM)			12
<u>"</u>	/ \									
13-		75		9.8						<b>H</b> 3
,,	\									H4
14-	$\bigvee$			1						'"
15-	X									<b>H</b> 5
,	$\Lambda$									H6
16-	/ \	ļ						<u> -:-</u>		סו
17-	<u> </u>	100		1.4			ne to medium sandy SILT, trace	<u> -:-</u>		-17
	\		}			clay (ML	.)	-:-	SM09TB01-1719	
18-	$\bigvee$	].			CHOOCEDOL 1710				collected from 17.6	<del>  1</del> 8
19-	X				SM009TB01-1719			-:-	to 19.6 ft.	<b>H</b> 9
	$\Lambda$							-:-	Water at 19.6 ft.	
20-	/\							-:-		20
21	\	100		1.9		Bottom o	of boring 21 ft			اور لــــ

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

									-	
PRO	JECI	T NAME	Bay	er Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING SMOON-THO	<u>)1</u>
				SWMU			DRILLING (ft-bgs) 13.0		- G.S. ELEV. <u>640.890</u>	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
					5 ft. / Geoprobe	;	20.45.0005		START DATE 6/23/	97_
		BY_G					NORTHING -2045.09625	<del></del>	FINISH DATE 6/23/	
100	T	U			1 1		EASTING_780.49838		I INISH DATE	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			0-1	166.6	SM008TB01-0001	Crushed sandy si	stone aggregate, fine to coarse It (fill)	407	Shelby tube pushed from 0 to 2.5 ft-bgs	1
1-		l l	l l				ne to medium GRAVEL with fine to sand, damp (fill)	0.0	in twin boring.	
2-								00.0		-2
3-			1-3					0.0	Shelby tube pushed from 3 to 5 ft-bgs	-3
4-					SM008TB01-0305			0.00	in twin boring.	<b>-4</b>
5-		<u> </u>	3-5	200.1				0.00		-5
_ <b> </b> } 6-	A M							0.00		6
7-	$\left\{ \right\}$							0.00		-7
8-	${ m I\!\!/\!\!/}$				SM008TB01-0709			0.00		-8
9-		65		829.1		Same as	above, piece of cresote wood	0.00		9
10-	A /							000		10
11-	$\bigvee$							0.00		-11
12-	$\left  \right  $				SM008TB01-1113			000		-12
13-		50		529				0 0	Water at 13 ft.	<b>–13</b>
14-	$\Lambda$					Brown, f	ine sandy SILT, wet (ML)		Shelby tube pushed	<del> </del>   4
'	V			}					from 14 to 16 ft-bgs	
15-	$\parallel \parallel$				SM008TB01-1416				in twin boring.	<del>-1</del> 5
	$\mathbb{N}$				]					
16-	∜ \							:-		H6
<b>.∐</b> -} 17-	1	100		537		Bottom	of boring 17 ft			17
	IOTE	S:								••

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface6. ft-msl-feet above mean sea level

BORINO DRILLI DRILLI	G LOCA NG FII NG ME	ME Bayer Corp. ATION SWMU OO RM Microseeps THOD Geoprob G. Werkman	07	Aartinsville, WV	WATER LEVELS RELATIVE TO G.SURFACE BORING NO. SM007-TDURING DRILLING (ft-bgs). N/A G.S. ELEV.640.86 CASING ELEV. N/A START DATE 11/11/9 FINISH DATE 11/11/9				
DEPTH SAMPLE	RECOVERY (feet) AND TAILATION HNu (ppm)			MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH		
25- NOTE	4 		1	Bottom of boring 2	ace silt, v. loose, wet			-25	
2. l 3. N	JSCS C 1S-Not	and Elevations in for lassification based surveyed encountered	eet unle on visu	ss otherwise noted al-manual procedures	3	St	neet 3 of 3		

BORING LOG

DRIL DRIL	ING LIN LIN	LOCA G FII G ME	ME Bayer Corp. ATION SWMU OC RM Microseeps THOD Geoprob G. Werkman	07	fartinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 847.89  NORTHING -1553.61		BORING NO. SM007-1 G.S. ELEV.640.86 CASING ELEV. N/A START DATE 11/11/9 FINISH DATE 11/11/9	9
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	OTES	4 S:		5-33	Brown-yellow, clastiff, moist  Brown, silty SAND grading to wet	wn-yellow, silty CLAY, little sand and t  SILT, little f sand, stiff, moist  syey SILT, little sand, trace gravel, l, little clay, trace gravel, dense, moist		Water at 19 ft	15
	1. De 2. US 3. NS	epths SCS C S-Not	and Elevations in f classification based surveyed encountered	eet unle d on visu	ss otherwise noted al-manual procedure	es	Sł	neet 2 of 3	

## **BORING LOG**

BORING DRILLIN DRILLIN	LOCA IG FII IG ME	ME_Bayer Corp., ATION_SWMU 00  RM_Microseeps THOD_Geoprobe G. Werkman	7	lartinsville, WV	WATER LEVELS RELATIVE TO G.SURFACE BORING NO. SM007-TB  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 847.89  NORTHING -1553.61  BORING NO. SM007-TB  G.S. ELEV.640.86  CASING ELEV. N/A  START DATE 11/11/99  FINISH DATE 11/11/99				
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
	4	SM007TB15-0001	0	ASPHALT  Crushed LIMESTO  Yellow-red to brotrace gravel, stif	own-yellow, clayey SILT, little sand,				
5-	4	SM007TB15-0305	0	Yellow-red to br sand and gravel,	own-yellow to black, clayey SILT, little stiff, moist			-5	
2. t 3. t	epths JSCS   NS-No	and Elevations in f Classification based t surveyed t encountered	0 eet unk	gravel, stiff, mois	i	5/5/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9/9	heet 1 of 3	10	

OR DRIL DRIL	ROJECT NAME Bayer Corp., New Martinsville, WV DRING LOCATION SWMU 007  RILLING FIRM Microseeps RILLING METHOD Geoprobe DGGED BY G. Werkman					WATER LEVELS RELATIVE TO G.SU DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 768.39 NORTHING -1674.94	CASING ELEV. N/A  START DATE 11/11/99				
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН		
			SM007TB14-1012		Bottom of boring 12	2 ft	Ø/Ø/ Ø/Ø/ Ø/Ø/ Ø/Ø/ Ø/Ø/	Water at 11.7 ft			
						·					
15-				-					<b>-</b> 15		
-											
	2. US 3. NS	pths a CS C -Not	and Elevations in fe lassification based surveyed encountered		ss otherwise noted II-manual procedures		Sh	eet 2 of 2	-20		

BORING LOG

BORING LO DRILLING DRILLING	NAME Bayer Corp.  OCATION SWMU 00  FIRM Microseeps  METHOD Geoprobe  Y G. Werkman	7	Martinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 768.39  NORTHING -1674.94		BORING NO. <u>SM007-1</u> G.S. ELEV. <u>640.63</u> CASING ELEV. <u>N/A</u> START DATE <u>11/11/9</u> FINISH DATE <u>11/11/</u>	9	
SAMPLE RECOVERY	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
5-	SM007TB14-0001  SM007TB14-0305	5	yellow-brown to the trace red brick from to black, c	dk. brown, silty CLAY, little gravel, rick fragments, TDI residue, med. oist  prown, silty CLAY, little sand, gravel, ragments, low plasticity, stiff, moist			<u> </u>	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
10 NOTES: 1. Dept 2. USC: 3. NS-	hs and Elevations in fo Classification based Not surveyed Not encountered	2 eet unle on visu	wood, dense, mois	st	\$ \\$ \\$ \\$ \\$ \\$ \\$ \\$ \\$ \\$ \\$ \\$ \\$ \\$	heet 1 of 2	10	``

BORING LOG

DRING	LOCA	ME Bayer Corp. ATION SWMU 00		Aartinsville, WV	WATER LEVELS RELATIVE TO G.SURFACE BORING NO. SM007-TBI3  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  CASING FLEY N/A				
		RM Microseeps		- <del></del>	-   WELL LEVEL	1	CASING ELEV. N/A		
DRILLIN	G ME	THOD Geoprob	ė į		EASTING_740.3367		START DATE 11/11/9	99	
LOGGED	BY_	G. Werkman			NORTHING1984.67	FINISH DATE 11/11/9			
					NONTIANO	<del>  -</del>	<del></del>	Τ	
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
15-	4		0	moist	SAND, some clay, trace gravel, dense,			- -	
NOTES		SM007TB13-1719	0	Bottom of boring	<del></del>		Water at 19.6 ft	20	
1. De 2. US 3. NS	pths SCS C Not	and Elevations in fo lassification based surveyed encountered	eet unle on visua	ss otherwise noted al-manual procedur	es	Sh	eet 2 of 2		

BORING LOG

BORING LO DRILLING F DRILLING N	AME Bayer Corp.  CATION SWMU 00  FIRM Microseeps  METHOD Geoprobe  G. Werkman	7	Aartinsville, WV	WATER LEVELS RELATIVE TO G.SURFACE BORING NO. SM007- DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 740.3367 NORTHING -1984.67  WATER LEVELS RELATIVE TO G.SURFACE BORING NO. SM007- G.S. ELEV.640.75 CASING ELEV. N/A START DATE 11/11/9 FINISH DATE 11/11/9			
DEPTH SAMPLE RECOVERY	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	SM007TB13-0001  SM007TB13-0305	3	Dk. brown to bro sand, trace red b soft, moist	SAND, little clay, trace gravel, crushed			-5
2. USCS 3. NS-N	as and Elevations in fe Classification based ot surveyed ot encountered				<u>V////</u> Si	heet 1 of 2	40

OJECT NAME Bayer Corp.,	New Martinsville		WATER LEVELS RELATIVE TO G.SURFACE BORING NO. SM007-TB12				
ORING LOCATION SWMU 00	7	DURING DRILLING (ft-bgs) N/A	- 1	G.S. ELEV. <u>649.44</u>			
DRILLING FIRM Microseeps		WELL LEVEL N/A	- 1	CASING ELEV. N/A			
DRILLING METHOD Geoprobe		EASTING_818.88		START DATE_11/10/9	99_		
LOGGED BY <u>G. Werkman</u>		NORTHING -2303.53		FINISH DATE 11/10/99			
	_						
SAMPLE SAMPLE ID (feet)	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH		
25-\\\ 4\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Brown, s  Brown, s  Brown, s	SAND, trace clay and silt, loose, moist  SAND, trace clay, dense, moist  SAND, trace clay, dense, moist  -m SAND, trace silt, loose, moist to wet		Water at 27.2 ft	-25		
NOTES:					-30		

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   NS-Not surveyed
   NE-Not encountered

PROJECT NAME Bay BORING LOCATION  DRILLING FIRM Micr  DRILLING METHOD  LOGGED BY G. Werk	SWMU 007 roseeps Geoprobe		EASTING_818.88		
DEPTH SAMPLE RECOVERY (feet) GRANGE	PLE   _	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
4	2	ushed LIMESTONE  Drown to brown-yellow, silty SAND, little gravel, ace clay  Drown, silty SAND, trace gravel and clay, dense, ist			<del>-1</del> 5
NOTES: 1. Depths and Eleva 2. USCS Classificat 3. NS-Not surveye 4. NE-Not encounte	ations in feet unless ion based on visual- d	therwise noted anual procedures	St	neet 2 of 3	<sup>1</sup> -20

**BORING LOG** 

1: 	JEC	T NAI	ME Bayer Corp.	New N	Martinsville, WV	WATER LEVELS RELATIVE TO G		L .			
ر الأسي	RING	LOC	ATION SWMU 00	7		DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>649.44</u>			
			RM Microseeps			WELL LEVEL N/A		CASING ELEV. N/A	<u> </u>		
			THOD Geoprobe	<u> </u>		040.00		START DATE 11/10/9	99		
			G. Werkman			EASTING_818.88	ı	FINISH DATE 11/10/			
	T	T				NORTHING -2303.53	<del></del>	T INIGH DATE			
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН		
			SM007TB12-0001		Brown, silty SAND, matter, roots, dens	little crushed limestone, organic se, moist					
	$\ \cdot\ $		SM007TB12-0305	İ	Brown, f-m sandy	SILT, trace clay, dense, moist		3			
1	$\frac{1}{1}$						120 (22)		-		
1	Ш						· · · · · ·	<u>-</u>			
	V						17717	-			
	1	4		0				<u>]</u>	- 1		
l	11							-	:		
ļ	$\parallel \parallel$							-			
ĺ	H						17:17	-	}		
	$\parallel \parallel$						100				
		<b>∛</b>					1202				
· /	<u></u>				As above, trace gi	ravel		<del>,</del>	-		
					As above, trace gr	10401	100	7			
ł	1						<u> </u>				
5	1\							]	-5		
	11/	1						<u>.</u>			
	W	İ									
								_			
	11	4		2	•	, .	<u>:::::::::::::::::::::::::::::::::::::</u>				
	1/\					A Mark 1 And 1991 I Address of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the C		·- -			
	M						100.00	· -	i i		
	1/ \						177.77	<u> </u>			
	$\  \cdot \ $							[			
								]	]		
l	+	1			As above			]			
	$\Lambda I$						المنات				
	11/		ž.				127127	1			
	1 X		`						<b> </b>		
ĺ											
	$\  \  $										
	1	4		9			1000	<u> </u>	-10 -		

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
  4. NE-Not encountered

Sheet 1 of 3

BORING LOG

			- Ray	er Cor	p., New Martinsvill	e WV	WATER LEVELS	BORING SMOO7-TBII		
						, n.v	DRILLING (ft-bgs) 19.8		-G.S. ELEV.640.485	- 1
BOR!	ING	LOCAT	ION	SWMU (	nia Drilling Co		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
DRIL	.LIN	G FIRN	1_Per	IIIS Y IV	nia Drilling Co.	<del></del>			START DATE 6/24/	
					5 ft. / Geoprobe	<u></u>	I NODTLITAIC "IODI.IODOD I			
LO.G	3ED	BY_G	6. Werk	man	•		EASTING 901.46643 FINISH DATE			791
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			0-1		SM007TB11-0001		rushed stone aggregate, fine to andy silt, trace clay, damp (fill)	- A		ļ
1-							layey, fine to coarse SAND, trace			
2-	1					fine, sub	angular gravel, trace silt (SC)			-2
3-			1-3	0						-3
4-					SM007TB11-0305					4
_	1		3-5	0						5
5- 6-						Same as	above, black			-6
7-	V			1						7
8-										8
9-	L	83		0						9
10-	$\Lambda /$									10
11-	1			·						-11
12-	∤/∖									-12
13	_	63		0			layey, fine to medium SAND, few			13
14-	1/					silt, trac (SC)	e fine, subrounded gravel, damp			14
15-	$\{X\}$									-15
16-	${/\!/}$									16
17-		100		0						-17
18-	$\left\{ \right\}$				SM007TB11-1719	Fine to	medium sandy SILT, trace clay		SM07TB11-1719 collected from 17.8 to 19.8 ft.	- <del>1</del> 8
19-	1/\				SWOOT IBILLIA				Water at 19.8 ft.	19
20-	∜ \	\l	1						Mater at 18.0 It.	-20
21-	<u> </u>	100		0		Bottom	of boring 21 ft			<u></u>

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 Geoprobe samples marked with crossed boxes
 Auger samples marked with depth intervals

5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

Page 1 of 1

PRO	JECT	T NAME	- Bay	er Cor	p., New Martinsvill	e, WV	e, WV WATER LEVELS BOF			10
				SWMU			DRILLING (ft-bgs) 17.0		G.S. ELEV.640.096	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
					5 ft. / Geoprobe	!	0004 42020		START DATE 6/23/	97
		BY_					NORTHING -2001.43639		FINISH DATE 6/23/	
	1			_	1		EASTING_996.49239		7 21/2011 57/10	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
1-			0-1		SM007TB10-0001		stone aggregate, fine to coarse t, damp (fill)			  -
2-		i								-2
3-			1–3	0			·	7 8 6		-3
5-			3-5	0	SM007TB10-0305	Sama aa	<b>Dhave</b>	400		4 5
6-	N/					Same as	above	0		-6
	$ \sqrt{} $	50		0				10 P		7
8-								400	Geoprobe refusal at 7.5 ft; auger to 10 ft.	-8
9-				<b>!</b>						9
10-	1						brown, crushed stone aggregate, ey, fine to coarse sand (fill)	00		10
12-	$\frac{1}{2}$								Composited soil for SVOC analysis from	-12
13-	$/ \setminus$	20		173					10-14 ft-bgs interval and from 14-17 ft-bgs	-13
14-	1	38		113	SM007TB10-1217			00	interval due to low recovery from the 10-14 ft-bgs	-14 -15
16-	IV								interval.	-16
17-	d				_	Light bro trace cla	own, fine to medium sandy SILT, ay (ML)		Water at 17 ft.	-17
<b>√</b> * ⊝⊈ 18-	<u> </u>	38	<u> </u>	28	<u> </u>	Bottom o	of boring 18 ft	· — · -		L <sub>18</sub>
	IOTE:	S:					E ft has fost balou ground ou	-6		

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

#### BORING LOG

PRO.	IFC1	ΓΝΔΜΕ	. Вау	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOO7-TB	09
				SWMU			DRILLING (ft-bgs) 18.2		G.S. ELEV. <u>640.541</u>	
DOM:	I TN	G FIRM	Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) <u>N/A</u>		CASING ELEV. N/A	
וזאח	LTN	G METI	HDD	HSA to	8 ft. / Geoprobe	<u></u>	1000 00 117		START DATE 6/23/	97
		BY_G					NORTHING -1983.82417		FINISH DATE 6/23	
LUG	סבט	D:					EASTING_814.98244	<del></del>	TINION BATE	
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM007TB09-0001		stone aggregate, fine to coarse t, damp (fill)	100		
1-			0-1			Surray Sin	, damp (im)			
2-				ļ				10 A		-2
3-			1–3	0		- <del></del>		40		-3
4-			ļ		SM007TB09-0305		ne to coarse sandy SILT with fine			4
					3,4007 1809 0303		n, subrounded and angular gravel, ushed stone (fill)			
5-			3−5	2		Brown, cr	rushed stone and concrete, damp	2		5
6-	-		i			(fill)				<del> </del> 6
7-										-7
8-		]								-8
l.	١ /	1								
9-	1\/			ļ	-	Light bro	wn, fine to medium sandy SILT,			9
10-	X						y, damp (ML)			-10
11-	${ m I}/{ m I}$									11
12-	L	88		11				<u> </u>		-12
	۱,									<b>⊢</b> 13
13-	1\/									
14-	łχ				ļ					14
15-	${1/}{\setminus}$				Ì					<b>-1</b> 5
16-	/_'	100		0		Carre fin	- to medium condu CTI T with fina		,	<b>H</b> 6
	۱.	1					e to medium sandy SILT with fine amp (ML)			<b>⊢</b> 17
17-	1\/				SM007TB09-1618			-0 -	· · · · · ·	
18-	1 X								Water at 18.2 ft.	-18
19-	<b>//</b>							<del>-</del> 0-0-		<del>-</del> 19
20-		90		0				o- o-	•	-20
	1	1			1	Dark bro	wn, fine to medium SAND, trace silt		•	-21
21-	1\/					(aw)				
22-	$\{X\}$	-	1							-22
23-	$   \rangle  $									-23
24-		60				Bottom c	of boring 24 ft			_L <sub>2</sub> /~'
<b>1</b> - ·	OTE	· .								¥,

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 Geoprobe samples marked with crossed boxes

4. Auger samples marked with depth intervals

5. ft-bgs-feet below ground surface

6. ft-msl-feet above mean sea level

Page 1 of 1

PR(	).IEC	T NAMÉ	- Bay	er Cor	rp., New Martinsvi	lie, WV	WATER LEVELS		BORING SMOO7-TB08	
		LOCAT					DRILLING (ft-bgs) 7.9	·	- G.S. ELEV. <u>639.411</u>	
DR:	ILLIN	IG FIRN	<u>Per</u>	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
DR:	ILLIN	IG MET	HOD_	HSA to	5 ft. / Geoprob	e	NORTHING -2256.20180		START DATE 6/20/	97_
		BY_G					EASTING_980.40372		FINISH DATE 6/20/	97
-	Τ.			-	<u> </u>					
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					SM007TB08-0001	Asphalt p	pavement	~~~		
	-		0-1	0.		Crushed	stone aggregate, fine to coarse t, damp (fill)			4
2						\	ine to coarse SAND, few fine			-2
١,		1	1-3			angular g	gravel, moist (fill)			-3
"										
4	<del>'</del>				SM007TB08-0305					<b>⊢</b> ⁴
5	;—		3-5	20.4						-5
6	\			·						-6
1.	. IV									<b>-</b> 7
1 /	$\mathbb{A}$									Γ΄
ع إ	۱\ <del> </del>					,				-8
و	<del>-</del>	40		29.2	•	Draun 6	no to contro condu cilty CLAV	777		9
10	.]\ /	1				few grav	ne to coarse sandy, silty CLAY, el, fine to medium angular pieces			H0
	$\mathbb{I}$					of concr	ete, wet to saturated (fill)			
1	'  <u> </u>						· ·			H1
12	:- / \			ŀ						<del>1</del> 2
13	,4_	58		28		Same as	above, moist.			<b>-13</b>
١.	. 1	1								
14	'T\/									-14
15	5 <b>- </b>									-15
16	; <del> </del> /\									H6
17	,	50		70.2					Traces of fine sand	<b>⊢</b> 17
"		Λ				No recov	very		and silt in sampler.	
18	³ <b> \/</b>			1						<del> </del> 18
19	) <del>/</del> //									19
20	$/\backslash \lfloor .$			ļ						20
		V .				Bottom o	of boring 21 ft			
ं€ 2 ्र	NOTE	:S:	•		<u> </u>		5. ft-bas-feet below around			<del></del> 21

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

			Па:	or Cor	n Nou Mortinaville	- W\/	WATER LEVELS		BORING SMOO7-TB	107	
					p., New Martinsville	2, W.V	DRILLING (ft-bgs) 19.1		G.S. ELEV.640.254		
				SWMU			WELL LEVEL (ft-msi) N/A				
					nia Drilling Co.		WELL LLVLE (IT IIISI)		CASING ELEV. N/		
DRILI	LIN	G MET	HOD_	HSA to	5 ft. / Geoprobe		NORTHING -2188.36791		START DATE 6/23	/97	
LOGG	ΕD	BY_G	6. Work	mon			EASTING 892.96234		FINISH DATE 6/23	3/97	
<u> </u>	- 1		<u> </u>	<del></del>	· · · · · · · · · · · · · · · · · · ·		LAGIINO			Τ	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
					SM007TB07-0001	Asphalt p		00		1.	
1- 2- 3-			0-1	0.7		coarse sa damp, (fi	stone aggregate with fine to andy silt, pieces of firebrick,	0000		3	
4- 5-			35	5	SM007TB07-0305		ular gravel, damp grading to wet			-4 -5	
6- 7-	$\bigvee_{i}$					Same as trace nai	above, very dark red-brown, is			-6 -7	
8- 9-	$/\!\!\setminus$	28		5.2						8 9	
10-	$\bigvee$						-		p.*	40 41	
12-	$\bigwedge$	50		5		=	wn, fine to medium sandy SILT, y, very moist (ML)			-12 -13	
14-	$\bigvee_{i}$			:						-14 - <del>1</del> 5	
16-	/	88		9.9			k gray, fine to coarse sandy			-16 -17	
18-					SM007TB07-1719	SILI, VEI	y moist (ML)			-18	
19- 20-	$\bigvee$					Dark gra	y sand (SP)		Water at 19.1 ft.	-19 20	
21- 22-		88		24						-21 -22	
23- 24-	$\backslash$									-2: -2:	
25	/ \	100		8.2		Bottom o	f boring 25 ft			امل	

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

_ <b>I</b> ®RO√	JFC:	T NAME	- Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOO7-TB06	
				SWMU			DRILLING (ft-bgs) 10.5, 17.0		G.S. ELEV.640.370	
					nia Drilling Co.		WELL LEVEL (ft-msl)_N/A		CASING ELEV. N/	Δ
					5 ft. / Geoprobe	!	00.47.20500		START DATE 6/20	/97
1		BY_G					NORTHING -2247.39568		FINISH DATE 6/20	
	T		I				EASTING_772.30968		I INION DATE	1
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					SM007TB06-0001		pavement	00		
1-			0-1	623		Crushed (fill)	stone aggregate, sand, damp.			H
2-	1					(1111)		00		-2
	}							00		
3-	1				<u> </u>	Dark bro CLAY, da	wn, fine to coarse sandy, silty			-3
4-					SM007TB06-0305	CLA1, GC	3HP (IIII)			-4
_			3-5	9	[		,			-5
5-										Γ
6-	<del>{</del> \						fine to coarse SAND, crushed and trace TDI, glass, ash, moist (fill)			-6
7-	JV.					Storic di	d trace 151, glaco, doin, molec (1m)			_7
, t	١٨	}								'
-8 أي	╢									8
9-		58.		0					SM07TB06-0810 collected from 8.5	9
	1				SM007TB06-0810				to 10.5.	
10-	1\/				<u> </u>					⊣0
11-	1 Y						······································		Water at 10.5 ft.	<del> </del>
	I۸					Brown, fi clay. (N	ine to medium sandy SILT, trace			
12-	1/ \					oldy. (i				12
13-		63		0						-13
	1	1								1
14-	1\/									H4
15-	<b>∤</b>									<b>-1</b> 5
1,0	I۸				0400777000 4547			1-:-		اما
16-	1/ \				SM007TB06-1517					<b>⊣</b> 6
17-	-	43		274.7		Same as	above, saturated		Water at 17 ft.	-17
40-	]\ /	1	-	1				:		<b>⊣</b> 8
18-	V		}	1						"
19-	$\frac{1}{\lambda}$				'					<b>⊣</b> 9
20-	$   \rangle  $			180.1						-20
	// \{						of boring 21 ft	-:-		
21-	OTE		Ļ	1413.2	<u> </u>	DOLLOW (	77 Politing 21 ft	<u> </u>		L-21

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

PRO.	IFC	Τ ΝΔΜΕ	- Bay	er Cor	p., New Martinsvil	le, WV	WATER LEVELS	BORING SM007-1805		
				SWMU		<del></del> .	DRILLING (ft-bgs) 18.6	G.S. ELEV.639.899		
וזפח	INO I TNI	IG ETRI	Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/A	I
DOTE	. LIN	IC MET	UOD	HSA to	5 ft. / Geoprobe	<del></del>			START DATE 6/20/	
							NORTHING -2249.18182			
LOGG	SED	BY_G	o. Weir	111011			EASTING 692.00605		FINISH DATE 6/20	751_
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					SM007TB05-0001		rushed stone aggregrate, fine to andy silt, damp (fill)	1		
1-			0-1			coarse s	andy sirt, damp (mi)	40		H
		ļ								-2
2-										
3-			1-3	0	ļ					-3
						trace fin	wn, fine to coarse sandy SILT, e gravel and clay, damp (ML)			
4-					SM007TB05-0305	*				4
5-	<u> </u>	1	3-5	0						-5
	Λ/	Λ	ļ							
6-		1								₩
7-	I V	-								7
•	I٨									, '
8-	${/\!/}$		l							8
9		100		0						9
ľ	N	Λ						[=:]	•	
10-	N /	1	İ					[]		H0.
۱.,	I۷			ĺ	]		•			<b> </b>  - 11
11-	١٨									"
12-	ł/ \									H2
Ì	<i>ا</i> ا	100	1	0						42
13-		1 100	ŀ	"			wn, fine to coarse sandy SILT, ay, moist (ML)			H3
14-	N /	"				trace cia	y, moist (ML)			14
	IV									'
15-	X									<del> 1</del> 5
16-	lΛ									H6
10	<i>ا</i> ا	V								
17-	$\vdash$	100		1.9	SM007TB05-1618	Same as	above, gasoline odor, wet.			<del>  1</del> 7
_ ا	1	/			[					-18
18-	\ <i> </i>							[]	Mater at 40 0 41	'
19-	Į X					V	di bana ing dan dandi anasi dha a da		Water at 18.6 ft.	⊣9
ł					j		k brown to dark gray, fine to andy SILT, wet (ML)	[		
20-	<b>//</b>	\l								20
21-	<u> </u>	100	<u> </u>	0		Bottom c	of boring 21 ft			
	OTE	S:								

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

**BORING LOG** 

∵p	PROJECT NAME Bayer Corp., New Martinsville, WV						le, WV	WATER LEVELS		BORING SMOO7-TBO	04
					SWMU			DRILLING (ft-bgs) N/A		-G.S. ELEV.640.627	
٦	RTI	ı tnı	G FIRN	A Pen	nsylva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/A	
	RIL	LIN	GMET	HOD	HSA to	5 ft. / Geoprobe	2	1070 55006	<del></del>	START DATE 6/25/	97
				3. Werk				NORTHING -1679.55996 EASTING 847.84167		FINISH DATE 6/25/	
F								EASTING OTT.			
	DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	1-			0-1		SM007TB04-0001		stone aggregate, fine to coarse t, damp, (fill)			1
	2-			1-3	0				0000	Ola like take a such a d	-2
	3-					SM007TB04-0305		own sandy CLAY, fine to coarse w silt, trace fine gravel (fill)		Shelby tube pushed from 3 to 5 ft-bgs in twin boring.	-3 -4
	5-			3-5	86.9			·		Shelby tube pushed brom 4 to 7 ft-bgs in twin boring.	-5
	6-										6
	7-						Black TD	I residue, tarry substance, (fill)	× × × × × × ×		-7
	8-		:			SM007TB04-0709			× × × × × ×		8
I	9-		65		436		Refusal;	Bottom of boring 9 ft.	×_×_		L <sub>9</sub>

#### NOTES:

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRO	JFC	T NAMI	- Bay	yer Cor	p., New Martinsvil	lle, WV	WATER LEVELS  DRILLING (ft-bas) 15.1		BORING SMOO7-TBO3	
				SWMU			DRILLING (ft-bgs) 15.1		G.S. ELEV.640.620	<del></del>
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	4
					5 ft. / Geoprobe	<u> </u>	4710 800 40	<del>.</del>	START DATE 6/25	/97
		BY_					NORTHING -1719.89249 EASTING 964.35254	<del> </del>	FINISH DATE 6/25	/97_
-		T	<del></del>		<u> </u>	•	EASTING 00 1100E0 1			
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
							rushed stone aggregate, fine to andy silt, damp (fill)	100		
	Dark						y, silty CLAY, few fine to coarse			
2-	Sand,						mp (fill)			-2
3-	Dark b						wn, clayey, fine to coarse SAND,	4/4/4	v.	-3
4-					SM007TB03-0305	few fine	to medium gravel, damp (fill)			4
5-		1	3-5	0		Grav to v	yellow-brown, clayey, fine to			-5
6-	<b>∤</b> \ /						AND, few gravel, damp, (fill)			-6
7-	Į X									-7
8~										-8
9-		100		0						. <b> </b>
10-	$\Lambda$						low-brown to light gray, fine to andy CLAY, few fine gravel, trace			40
	V	Ì	i			silt, damp				
11-	$ \Lambda $									-11
12-	$V \setminus$	7.0								H2
13-	1	70		0						<del> </del> 13
14-	$   \rangle /$				SM007TB03-1315					<del> </del> 14
15-	X					→ Black, TD	ot (fill)	××××	Water at 15.1 ft.	<del> </del> 15
16-	//						wn, fine to medium sandy SILT,			-16
17-		75		16.8		wet. (ML				<b>-17</b>
18-	N/						wn to gray CLAY, trace silt, high , wet. (CH)			H8
19-	IV.					·	, нес. (оп)			49
	$ \Lambda $	] }		1			wn, fine to medium SAND, few silt,			-20
20-	$V \setminus$	68		0		wet. (SV	<b>V)</b>			1 1
	-									21
										-22
23-										-23
24-	+ 1/ N									-24
25-		85		0		Bottom o	f boring 25 ft	[A:A:]		⊥ <sub>25″</sub> ີ
	DTES						E ft-bas-feet below around su			× 5

- 1. Depths and Elevations in feet unless otherwise noted
- USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

(IDD)	יובר.		. Bav	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SM007-TB02	
				SWMU		<del></del>	DRILLING (ft-bgs) 16.4, 19.1		G.S. ELEV.640.373	
Bu	KING	EUCA I	IUN_	nsvlva	nia Drilling Co.	<del></del>	WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
UH.	ILLIN	GFIRM	1	HSA to	5 ft / Geoprobe				START DATE 6/24	
					5 ft. / Geoprobe		NORTHING2024.21793	<del></del>		
LO	GGED	BY_G	j. werk	man		·	EASTING_974.63941		FINISH DATE 7/17/	797
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	1-		0-1		SM007TB02-0001	fine to c	black, crushed stone aggregate, oarse sandy SILT, trace fine lamp (fill)	400	•	
	2-		1–3	0				100		-2 -3
	,  -	,			SM007TB02-0305					-4
1	5		3-5	19.8				40		-5
1	}-  ,_									-6 -7
1	<u>`</u> ]/						DI residue (fill)	×××× ×××× V———		-8
ן י	∍-{	. 75		13.3		_ fine to c	b black, crushed stone aggregate, coarse sandy SILT, trace fine damp (fill)			-0
10	> <del>-</del>  \/					Dark bro	own, fine to medium sandy SILT, ay (ML)	/ <del></del>		-10
		;			0400777000 4443	Light bro	own, silty, fine SAND, trace clay			<b>⊣1</b>
	2-//\ 3	95		110	SM007TB02-1113	Same as	above, wet			-13
-	4-\\	1								14
1	5-  X		ļ	,						<b>-1</b> 5
10	6- <del> </del> /\	\							Water at 16.4 ft.	<b>-16</b>
	7	60		40.8			ine to medium SAND, few silt, trace prounded gravel, wet (SP)			- <del>1</del> 7 - <del>1</del> 8
1	8-  \/ 9-  \/				SM007TB02-1719	-				19
20	$-1$ /\									-20
. I . , ,	<u>,                                    </u>	100	<u> </u>	7.9		Bottom	of boring 21 ft		·	
	NOTE	S:					E ft-has-feet helow around su	-f		

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

BBO	IEC.	Tiname	. Bav	er Cor	p., New Martinsvi	lle, WV	WATER LEVELS		BORING SMOO7-TBO	<u>)†</u>
				SWMU			DRILLING (ft-bgs) 10.9, 17.0		G.S. ELEV.640.693	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
					5 ft. / Geoprob	e			START DATE 6/23/	
					, o . c. / ocop. oc		NORTHING -2149.68193			
LOG	GED 	BY	. WEIN	111011			EASTING_846.92040	FINISH DATE 6/23/	-	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM007TB01-0001		pavement	~~~		
1-			0-1				stone aggregrate with fine to andy silt (fill)	/ 🗂		H
2-						\   \	ayey, fine to coarse SAND, with			_2
							ular gravel (fill)	0.0		
3-	1		1-3					0.0		-3
4-					SM007TB01-0305			00		4
İ			3-5	0.0				0 0	Shelby tube pushed	_
5-		1	] 3-5	0.0		Brown to	gray, crushed GRAVEL with fine	0.0	from 0 to 2.5 ft-bgs in twin boring.	5
6-	1\ /					to coars	e sandy clay, damp (fill)	00	iii taaa boaaag.	-6
	W					}		0.0		,
7-	lλ	ļ						0. 0.		7
8-	I/\	l						0.0		-8 (
ŀ	٧ ١	73		48.8		Dark gra	y, fine to medium sandy SILT,			Ĺ
9-		1 '3	,	40.0		trace cla			Water at 10.9 ft.	P
10-	<b>∤\ /</b>					Same as	above, grading to light brown,		Mater at 10.5 ft.	-10
1	W				}		e gravel, very moist	<u>   </u>		l., l
11-	1 1									H1
12-	4/\									-12
	/ \	<b>↓</b> _		1			an profitment of	:-		
13-		75		4.0				:-		H3
14-	1\ /	!		}			1			<del> </del>  4
	V			ļ				:-		
15-	1 1					1				H5
16-	1//		1		SM007TB01-1517					<b>H</b> 6
	۱ \	٠								
17-		100		0.0	-	Same as	above		Water at 17.0 ft.	H7
18-	1 /	(								<del>-1</del> 8
1	IV									
19-	1 1	ļ.				1				H9
20-	]/\	.[								-20
	<b>/</b>	100		0.0		Bottom o	of boring 21 ft			
21- N	OTE	1		L		•				2 '

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 Geoprobe samples marked with this search.

4. Auger samples marked with depth intervals

5. ft-bgs-feet below ground surface

6. ft-msi-feet abové mean sea level

Page 1 of 1

ROJECT NAME Bayer Corp., SORING LOCATION SWMU OOD DRILLING FIRM Microseeps DRILLING METHOD Geoprobe LOGGED BY G. Werkman	6		WATER LEVELS RELATIVE TO G.SUR DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 1239.97 NORTHING -2378.22		BORING NO. SM006-TB07 G.S. ELEV.640.80 CASING ELEV. N/A START DATE 11/10/99 FINISH DATE 11/10/99	
SAMPLE RECOVERY (feet) and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis analysis and analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis analysis ana	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
2.4 SM006TB07-1315	6	As above, moist grad Bottom of boring 16			Water at 15 ft	<b>-</b> 15

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

BORING LOG

		ME Bayer Corp.,		dartinsville, WV	WATER LEVELS RELATIVE TO G.S. DURING DRILLING (ft-bgs) N/A	<del></del>	G.S. ELEV. <u>640.80</u>	<u> </u>
		RM Microseeps THOD Geoprobe	:		WELL LEVEL N/A		CASING ELEV. <u>N/A</u> START DATE 11/10/	
		G. Werkman			EASTING_1239.97 NORTHING2378.22		FINISH DATE 11/10/	
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	3.3	SM006TB07-0001	0	Brown, silty CLAY,	Brown, silty CLAY, trace sand and gravel, med. stiff,			
5-	3.7		0	med. plasticity, mo	ist			-6
	epths a	and Elevations in fe		trace sand and gra	ray, red-brown mottles, silty CLAY, avel, soft, med. plasticity, damp to			-
3. N	S-Not	surveyed encountered		•		Si	heet 1 of 2	

**BORING LOG** 

ROJECT NAME Bayer Corp., N		WATER LEVELS RELATIVE TO G.SUI DURING DRILLING (ft-bgs) N/A	RFACE	BORING NO. SM006-TB06 G.S. FLEV 640.52		
ORING LOCATION SWMU 006		WELL LEVEL N/A		G.S. ELEV. <u>040.32</u> CASING ELEV. <u>N/A</u>		
DRILLING FIRM Microseeps			l l			
DRILLING METHOD Geoprobe		EASTING_1398.20	l l	START DATE 11/11/99		
LOGGED BY G. Werkman		NORTHING2373.34		FINISH DATE 11/11/99		
SAMPLE RECOVERY (feet) GI BACOVERY (feet) AND AND AND AND AND AND AND AND AND AND	(mdd) NH	MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
4 SM006TB06-1315	grav	y, clayey SILT, little f-m sand, trace shale and soft, moist grading to wet		Water at 15 ft	<del>-1</del> 5	

4. NE-Not encountered

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed

BORINO DRILLI DRILLI	G LC NG I	CA FIR ME	E Bayer Corp., TION SWMU 000 M Microseeps THOD Geoprobe G. Werkman	6	artinsville, WV	WATER LEVELS RELATIVE TO G.S DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 1398.20 NORTHING -2373.34		BORING NO. SM006-TB06 G.S. ELEV.640.52 CASING ELEV. N/A START DATE 11/11/99 FINISH DATE 11/11/99	
DEPTH	RECOVERY	(feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4	SM006TB06-0001	0	ASPHALT  Crushed LIMESTON  Brown, silty, f-c Samoist	AND, trace gravel and clay, dense,			
5-		4	SM006TB06-0305	0	Brown, silty, f-c S gravel and clay, de	AND, little weathered shale, trace ense, moist			5
10—NOT	Dept	4 hs a	and Elevations in fe	3 eet unle	little sandstone an	ow, dk. gray to black, silty SAND, ad shale fragments, dense, moist			10
2. 3.	USC:	S CI Not	lassification based surveyed encountered	on visu	al-manual procedures	s	S	heet 1 of 2	,

(.]	PRO.I	FCT	NAME	· Bay	er Cor	rp., New Martinsvill	e, WV	WATER LEVELS		BORING SMOOG-TE	B05
					SWMU			DRILLING (ft-bgs) 23.4		-G.S. ELEV.639.968	<u> </u>
						nia Drilling Co.		WELL LEVEL (ft-msl) N/A _		CASING ELEV. N/	
						5 ft. / Geoprobe				START DATE 6/16	
						5 6 Tt. 7 GCGP100C	<del></del>	NORTHING -2715.68832		1	
	LOG	ED	BY	6. Werk	man			EASTING 1320.35811		FINISH DATE 6/16	3/9/
		ш		₽. ←	D <sub>0</sub>						
	DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
İ						SM006TB05-0001	Asphalt p	pavement	100		
	1-			0-1		<u> </u>	Crushed	stone aggregate (fill)	000		H
	2-								000		-2
							Dark bro	wn, silty CLAY, damp, (fill)			
	3-							•			-3
	4-		i			SM006TB05-0305	Same as	above, trace fine sand, (fill)			-4
	5-			3-5	24						-5
	ا ۽	\ /				[		wn, silty CLAY, trace brick s, sandstone and glass fragments			-6
	6-	M					(fill)	s, salidstolle and glass fragments			Γ
ı	7-	XI								E.	-7
	8-	Μ									-8
		/ \	80		40						
	9-		ου		40						P
ĺ	10-	\ /				SM006TB05-0911		rown, silty CLAY, slightly damp			H0
	11-	ΥJ					(CL)				<b> </b>
ļ		ΛΙ									
	12-	/									<del>-1</del> 2
	13-		100		127		Same as	above			<del> </del> 13
ı	14-	\ /									-14
	,14	M									1
-	15-	ΧI									H5
ı	16-	$/\backslash$					•				16
		/ \	100		0						,,
	17-		iĢŪ		"		Same as damp (C	above, trace very fine sand,			H17
	18-	<b>\</b> /					dallip (c	L)			<b>⊣</b> 8
	19-	Υŀ									-19
		ΛΙ					Dark bro	wn, clayey SILT, damp (ML)			
	20-	/ N					Jan Dio	, Subjey estil dump (ML)			-20
	21-		100		0						-21
		\ /I				CHOOSE OF STATE		wn to yellow-brown, silty CLAY,			
	22-	$ \cdot $				SM006TB05-2123	little fine wet (ML)	to coarse sand, damp grading to			-22
	23-	χl					WEL (ML)	,			-23
	24-	М		,						Water at 23.4 ft.	-24
	24	/ \					Bottom o	of boring 25 ft			
•	25-	) TES			<u> </u>				1////1		25

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

#### BORING LOG

220			- Bay	ver Cor	p., New Martinsvil	le WV	WATER LEVELS		BORING SMO06-TB	04
						ic, it v	DRILLING (ft-bgs) 7.0, 20.0		G.S. ELEV.639.082	
BOK	ING	LUCA	IUN Per	SWMU	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
					5 ft. / Geoprobe	- <del></del>			START DATE 6/18/	
					o it. 7 deoprobe		NORTHING -2824.02207			
LOG	GED	BY	J. WEIN	viilai i			EASTING_1196.81416		FINISH DATE 6/18/	<u>*</u>
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM006TB04-0001		stone aggregate			
1-	1		0-1	0			ndy SILT, fine to coarse sand, e gravel, (fill)		•	H
2-	1						- g v - i, · i, · i, · i			-2
			1-3	0			wn, sandy SILT, fine to coarse			-3
3-	1		' '			sand, tra	ce fine gravel and clay (fill)			r I
4-	┨				SM006TB04-0305					4
5-			3-5	21						-5
ľ	١,	A					y-brown sandy CLAY/silt, fine to and, few crushed stone, trace			
6-	╢	Ì			SM006TB04-0507	gravel, d	ecaying wood, and metal pieces,			F6
7-	1 1	ŀ				polycarb	onate resin, (fill)		Water at 7 ft.; 40	-7
8-	$   \langle   \rangle  $						<u></u>		ppm from 7-9 ft.	8
9-		70		40.0						9
10-	1\/					•				-10
11-	$\frac{1}{\lambda}$									-11
12-	╢	<u> </u>	İ						•	-12
13-		0		0		Brown sa	andy SILT, fine to medium sand,	- <u>////</u> -		-13
14-	$\Lambda /$					trace cla	ay and fine gravel, damp. (ML)			<del>-1</del> 4
15-	<b>  X</b>									<b>-1</b> 5
16-	$\{/\setminus$		1							<del>-1</del> 6
17-	_	68		0						<b>⊣</b> 7
18-	$\Lambda$	1								<b>⊣</b> 8
	V									
19-	1 1				SM006TB04-1820					H9
20-	<b>∤/\</b>								Water at 20 ft.	20
ł	<b>/</b>	100				Bottom o	of boring 21 ft	<u> </u>	·····	ا ہے ا
21- N	OTE									<del>-</del> .

4. Auger samples marked with depth intervals

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 Geoprobe samples marked with crossed boxes

<sup>5.</sup> ft-bgs-feet below ground surface

<sup>6.</sup> ft-msl-feet above mean sea level

2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals

#### **BORING LOG**

PPO	ECT	NAME	Bav	er Cor	p., New Martinsville	e. WV	WATER LEVELS		BORING SMOOG-T	B03_
				SWMU		<del></del>	DRILLING (ft-bgs) 19		_G.S. ELEV.640.763	3
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N	
					5 ft. / Geoprobe		2000 200 40		START DATE 6/17	/97
		BY_G					NORTHING -2606.30042	<del></del>	FINISH DATE 6/1	i
-				I			EASTING_1077.99363	T	1111011 0711	
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM006TB03-0001	Crushed	stone aggregate	0 0		
1-			0-1				AND with fine to medium gravel, t, slightly damp, (fill)	0 0		H
2-						11 000 0111	t, originary damp, time	0. 0		-2
			1_2	0				0. 0.		
3-			1-3	"	ļ †		andy SILT, fine to coarse sand,			-3
4-						few grav	rel, damp, (fill)			4
5-			3-5	243						-5
Ĭ	N 1				]		AND, with fine to medium gravel,	0.0		
6-	\ <i>\\</i>			İ	SM006TB03-0507		ck glass, trace brick fragments, I wood, damp, (fill)	0 0	•	<b>⊢</b> 6
7-	ĮΥ	ļ						0 0		-7
a	I۸							0 0		
.∲ 8−	1/ \		]		[			0 0		-8
9-		75		343	ļ -		ole army brown andy CLAV fina			9
10-	$\mathbb{N}/$					to coars	rk gray-brown, sandy CLAY, fine se sand, few fine to medium gravel,			H0
"-	V		-			trace cr	ushed stone fragments. (CL)			.
11-	ł X						·			-11
12-	$ /\rangle$		ļ							-12
	V١	50	İ	28.1						
13-		50		20.1						H3
14-	{\ <i>[</i>				SM006TB03-1315					14
	] [				<u> </u>					<del>-</del> 15
15-	] [									"
16-	{/ \									<b>⊣</b> 6
17-	<u> </u>	88		367						<b>⊢</b> 17
"	1	1			ļ -	Dark bro	own sandy CLAY, very fine medium			
18-	1\/				SM006TB03-1719	sand, tra	ace coarse sand and fine gravel,			<b>⊣</b> 8
19-	1 1					damp. (	(CL)		Water at 19 ft.	-19
20-	1/\					5	of house Al Ch			-20
्   21-	y 1	100	L	264		Rottom (	of boring 21 ft			
1	OTES	_							•	

6. ft-msl-feet above mean sea level

Page 1 of 1

DD 0 1	<b>-</b>		- Bay	er Cor	p., New Martinsvii	lle. WV	WATER LEVELS		BORING SMOOG-TB	02
				SWMU			DRILLING (ft-bgs) 23.0		G.S. ELEV.639.350	17
					nia Drilling Co.	<del></del>	WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	<u> </u>
					5 ft. / Geoprobe	 R	·		START DATE 6/17/	
							NORTHING -2547.76585			
LOGG	iED	BY_G	, WEIN	111011			EASTING 1322.12451		FINISH DATE 6/17/	-
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			<b>6</b> _1	À	SM006TB02-0001		stone aggregate	0000		١.
1- 2- 3- 4- 5-			<b>0−1</b> <b>3−5</b>	0	SM006TB02-0305		vn, medium SAND, very damp, (fill)		Shelby tube pushed 0-2.5 ft. in twin boring Shelby tube pushed	1 2 3 4 5
6- 7-	$\bigvee$					Julie 43			3-5 ft. in twin boring Shelby tube pushed	-6 -7
8-	$/ \setminus$	100		40.9	SM006TB02-0709	CLAY, da	<del></del>	/ <i>[[i]</i>	5–7 ft. in twin boring	-8 -9 <b>4</b>
9- 10-	$\overline{\ \ }$	100	!				oarse SAND, trace fine to med. ace silt, damp, (fill)	/ 🎆		-10
11-	X	;		10.2		Dark gray sand, dan	y-brown, silty CLAY, trace fine np, (fill)			-
12-	$/ \setminus$	,	,			Yellow-br sand, dan	rown sandy SILT, very fine to fine			12
13-		75		0			rown, sandy SILT, fine to medium		Shelby tube pushed 15-17 ft. in twin	<b>⊣</b> 3
14-	$\setminus / \mid$						ce fine gravel, trace glass s, damp, (fill)	<u>  - : -  </u>	boring	-14
15-	X					Hagment	o, damp, (1111)			<del>-1</del> 5
16-	$/ \setminus$				SM006TB02-1517					<del>-1</del> 6
17-	<u> </u>	40		68.9		Yellow-br	own to dark gray-brown, fine to			<del>-1</del> 7
18-	$\setminus / \mid$		1				andy CLAY, trace fine gravel (CL)			-18
19-	X									<del>-1</del> 9
20-	$/ \setminus$									-20
21-	$\left\langle \cdot \cdot \right\rangle$	100		0		Yellow-hi	own, sandy CLAY, damp grading			-21
22-	$\setminus /$				SM006TB02-2123	to wet	omi, sairay oran, sairb graving			-22
23-	X								Water at 23 ft.	-23
24-	$/ \setminus$									-24
25	\	100		0		Bottom o	f boring 25 ft		<del></del>	

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface ;
- 6. ft-msl-feet above mean sea level

		T NIAME	- Bay	ver Cor	p., New Martinsvi	le. WV	WATER LEVELS		BORING_SM006-TB01	
		LOCAT					DRILLING (ft-bgs) 23		G.S. ELEV.639.254	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
					5 ft. / Geoprobe	9			START DATE 6/17/	97
		BY					NORTHING -2441.58500		FINISH DATE 6/17	
100	JOEL	, , , , ,	1		1		EASTING 1290.82230	<del></del>	FINISH DATE	
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			0.4		SM006TB01-0001		stone aggregate (fill)	1-4		
	1- !-		0-1			1	ne to coarse, sandy SILT, few edium crushed stone, slightly   )			-2
	<b>!</b> -		1–3	0		Brown, fin fine grave	ne to coarse, sandy SILT, trace el, (fill)			-3
	'		3-5	0	SM006TB01-0305	Same as	above			4 5
5	Λ	1	3-5	"			own to dark brown, silty CLAY,			1 1
	Ĭ					tew fine t damp, (fi	to medium sand, trace fine gravel, II)			-6 -7
	$\Lambda$	1								8
_	} } }	100		62	SM006TB01-0709					r g
-1	1	7		02			wn, sandy CLAY, few silt, fine to and, trace fine gravel, glass and			<b>1</b> 0.
10	٦V						wood pieces, (fill)			11
	' \									
1	? <del> </del>	V		135	SM006TB01-1113					H2
13	<b>*</b>	100	1	- 135			rown to brown, silty/fine sandy ace fine gravel, (SP/SC).			<del> </del> 13
14	'┤∖	<u>'</u>					-			<del>  1</del> 4
15	₹ΪΪ									H5
16	}- / \	V			·					<del> 1</del> 6
17	$\top$	100		12		Same as	above			<del>-1</del> 7
18	³┤∖╭	'								<del> 1</del> 8
19	ΉΧ						•			<del> </del> 19
20	)- <del> </del> //`\	\l								-20
2	1——	58		2.8		Same as	above.			-21
22	≥┤\ /	/			SM006TB01-2123					-22
23	3 <del>-</del>   X								Water at 23 ft.	-23
24	₁- /\	J					•			-24
     25	<u>,                                    </u>	100	l	0		Bottom o	f boring 25 ft			<u>L<sub>25</sub></u>
_1!	NOTE		. d []		n fant unlass ather	ulan natad	5 ft-bas-feet below around su	face		

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

					<del></del>	
PROJECT NAME Bayer Corp.,		Martinsville, WV	WATER LEVELS RELATIVE TO G.SUR			B15_
BORING LOCATION SWMU 00	5			i i	G.S. ELEV. <u>641.10</u>	
DRILLING FIRM Microseeps		·	WELL LEVEL N/A	- 1	CASING ELEV. N/A	
DRILLING METHOD Geoprobe	<u> </u>	<del></del>	EASTING_977.21		START DATE 11/10/9	9
LOGGED BY G. Werkman			NORTHING -2401.61	<del>-</del>	FINISH DATE 11/10/	99
	İ		NONTHINO		T	
DEPTH SAMPLE (feet) ID ID ID ID ID ID ID ID ID ID ID ID ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
4 SM005TB15-1415	3	Dk. brown, TDI res		**************************************	Water at 15 ft	-45
NOTES: 1. Depths and Elevations in fe	et unle	ss otherwise noted				1
2. USCS Classification based 3. NS-Not surveyed 4. NE-Not encountered	on visu	al-manual procedures		Sh	eet 2 of 2	

# **BORING LOG**

DRIL DRIL	NG LIN LIN	LOCA G FII G ME	ME Bayer Corp., ATION SWMU 00 RM Microseeps THOD Geoprobe G. Werkman	5	Aartinsville, WV	WATER LEVELS RELATIVE TO G.SURFACE DÙRING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 977.21 NORTHING -2401.61		G.S. ELEV.641.10  CASING ELEV.N/A  START DATE 11/10/99  FINISH DATE 11/10/99	
DEРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
5-			SAMPLE ID SM005TB15-0001	2	Brown, silty SAND, moist  Brown to dk. browloose, moist  Brown, silty SAND,	Crushed LIMESTONE  Brown, silty SAND, trace clay and TDI residue, loose, moist  Brown to dk. brown, silty SAND and TDI residue, v.			ال
		4		3	Brown-yellow, silty clay, trace gravel,  Dk. brown, TDI re		**************************************		-10

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   NS-Not surveyed
   NE-Not encountered

Sheet 1 of 2

**BORING LOG** 

BORI DRIL DRIL	ROJECT NAME Bayer Corp., New Martinsville, WV  DRING LOCATION SWMU 005  RILLING FIRM Microseeps  RILLING METHOD Geoprobe  DGGED BY G. Werkman					WATER LEVELS RELATIVE TO G.SL DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A EASTING 712.58 NORTHING -2476.91	ORING NO. SM005-TB14  G.S. ELEV.649.51  CASING ELEV. N/A  START DATE 11/10/99  FINISH DATE 11/10/99		
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS .	ОЕРТН
15		3.6	SM005TB14-0811	80/ 561	Dk. gray to black,	SHALE and TDI RESIDUE, dense, dry  SHALE fragments, dense, dry  ilty SAND, trace f gravel, clay, wood p to moist		Water at 16 ft	<del>-1</del> 5
-					Brown, f SAND, little	e silt, trace clay, loose, moist O ft			200
1 2 3	2. US 3. NS	pths : SCS C S-Not			ss otherwise noted al-manual procedures		Sh	eet 2 of 2	20

# BORING LOG

∖RO.	JEC1	ΓΝΑ	ME Bayer Corp.	New N	lartinsville, WV	WY WATER LEVELS RELATIVE TO G.SURFACE BORING NO. SMOOTH		BORING NO. SMOO5-	TB14_
			ATION SWMU 00			DURING DRILLING (ft-bgs) N/A		G.S. ELEV. <u>649.51</u>	
			RM Microseeps			WELL LEVEL N/A	<del></del>	CASING ELEV. N/A	<u> </u>
			THOD Geoprobe	2		710.50	<del></del> ;	START DATE 11/10/	99_
1			G. Werkman			EASTING 712.58		FINISH DATE 11/10/	
-				·	<del></del>	NORTHING -2476.91 FINIS			T
ОЕРТН	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			SM005TB14-0001		Brown, sandy SIL roots, dense, moi	.T, sod, trace gravel, organic matter, st			
	NI		SM005TB14-0001D		Brown, f-m sandy	SILT, little clay, trace gravel, dense,			
	1								
	$\Lambda$	4		0					
1	$\ \cdot\ $								
)									
ĺ			SM005TB14-0305		As above				
	$\setminus I$								
5-	$\mathbb{N}$								-5
	$\ \cdot\ $	•							
	I	4		2-7					}
								* *	!
									-
	$   \cdot   $							i i	
				-	Dis bassa fass	di anno Con anno de OTI T Pitti a la con			-
	$\setminus /$				trace gravel, den	dk. gray, f-m sandy SILT, little clay, se, moist			
	V		SM005TB14-0811						
	$ \Lambda $								•
_ \0-		4		47/ 672					
) N	OTES		and Elevations in fe	at unla	ee atherwise noted				U
	2. US	ics c			al-manual procedure	es	-		
			encountered				SI	heet 1 of 2	

BORING DRILLIN DRILLIN	LOCA NG FII NG ME	ME Bayer Corp., ATION SWMU 00 RM Microseeps THOD Geoprobe G. Werkman	5	Aartinsville, WV	WATER LEVELS RELATIVE TO G.S  DURING DRILLING (ft-bgs) N/A  WELL LEVEL N/A  EASTING 858.90  NORTHING -2589.88	( (	BORING NO. SM005-TBI3 G.S. ELEV.648.69 CASING ELEV. N/A START DATE 11/9/99 FINISH DATE 11/9/99		
DEPTH	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(mdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
		SM005TB13-1012			SAND, little TDI residue, trace gravel,				
15~	4	SM005TB13-1416	18/ 101	dense, moist	16 ft	x x x x x x x x x x x x x x x x x x x	Water at 16 ft	<del>-</del> 15	
20								<b>-20</b>	
NOTE 1. De 2. U: 3. N	epths a SCS C S-Not	and Elevations in fe lassification based surveyed encountered	et unle on visu	ss otherwise noted al-manual procedure	es ·	Sh	eet 2 of 2	20	

**BORING LOG** 

ै५३	ROJECT NAME Bayer Corp., New Martinsville, WV					WATER LEVELS RELATIVE TO G.SURFA		BORING NO. SM005-	TBI3
			ATION SWMU 00			DURING DRILLING (ft-bgs) N/A	<del></del>	G.S. ELEV. <u>648.69</u>	
			RM Microseeps			WELL LEVEL N/A	<del></del>	CASING ELEV. N/A	·
			THOD Geoprobe	2		EASTING_858.90		START DATE 11/9/9	9
LO	GGEI	BY_	G. Werkman			NORTHING -2589.88		FINISH DATE 11/9/9	99
H		T				No.			
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	(wdd) nNH		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
		4	SM005TB13-0001	0	Brown, silty, f-m S moist	SAND, little clay, trace gravel, dense,			
	5	4	SM005TB13-0305	0		T, little f sand, v. dense, moist			, <del>Г</del>
Į.	NOTE	4		50	Brown, clayey SIL moist	T, little f sand, trace gravel, dense,			10

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 NS-Not surveyed
 NE-Not encountered

Sheet 1 of 2

			ME Bayer Corp.		lartinsville, WV	DURING DRILLING (ft-bgs) N/A G.S. ELEV.641.18				
			ATION SWMU 00	Ü		WELL LEVEL N/A	1	CASING ELEV. N/A	$\overline{}$	
			RM Microseeps				,	START DATE 11/9/9		
			THOD Geoprobe	<u> </u>		EASTING_800.26	1			
LOGG	ΕD	BY_	G. Werkman			NORTHING -2831.50	F	INISH DATE 11/9/	33	
ОЕРТН	SAMPLE (feet) (feet) HNu (ppm)					MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
15-		4		47/ 110					<del>-1</del> 5	
20_		2	SM005TB12-1820	40/ 510		ttle silt, trace clay, loose, moist		Water at 20 ft	20	
1. 2 3.	. US . NS	pths SCS C S-Not	and Elevations in fo Classification based surveyed encountered	eet unle on visu	ess otherwise noted al-manual procedure	9\$	Sh	eet 2 of 2		

**BORING LOG** 

<u>.</u> 30	JEC	T NAI	ME Bayer Corp.	New N	Aartinsville, WV	WATER LEVELS RELATIVE TO G.S	URFACE	BORING NO. SM005-	TB12
			ATION SWMU 00			DURING DRILLING (ft-bgs) N/A	· ·	G.S. ELEV. <u>641.18</u>	
			RM Microseeps			WELL LEVEL N/A		CASING ELEV. N/A	<u> </u>
1			THOD Geoprobe	€		900.26	_	START DATE 11/9/99	
			G. Werkman			EASTING_800.26 NORTHING2831.50		FINISH DATE 11/9/99	
-	1				<del></del>	NORTHING			1
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			SM005TB12-0001			SILT, some gravel, little clay, trace nidentified fibers, dense, moist			
		4	·	18			37373737373737373 37373737373737373		-
5-	X	1	SM005TB12-0305	97			13.13.13.13.13.13.13.13.13.13.13.13.13.1		-5
		3	SM005TB12-0608	700/ 1700	Dk. brown to v. o trace gravel, soft	dk. gray, silty CLAY, little f-m sand, , damp to moist			
		A		63	Dk. brown to v. o gravel, dense, moi	dk. gray, silty SAND, little clay, trace ist			
0-	<u> </u>		<u> </u>				V.Z.Z.Z	4	<del>۱</del> ۰

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. NS-Not surveyed
- 4. NE-Not encountered

Sheet 1 of 2

PRO.	IFC1	г наме	Вау	yer Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOOS-TB	04
				SWMU			DRILLING (ft-bgs) 16.5		— G.S. ELEV. <u>641.200</u>	<del></del> :
DOT!	I TN	G FIRM	Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A	<del></del>	CASING ELEV. N/A	<u> </u>
וזפח	I TNI	C MET	.——— ⊔∩⊓	HSA to	5 ft. / Geoprobe				START DATE 6/19/	
		BY_G					NORTHING -2525.49206		FINISH DATE 6/19	
LUG	סבט	B1	or more				EASTING_981.35099		FINISH DATE STORY	<u> </u>
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			•		SM005TB04-0001	Asphalt	pavement		•	
1			0-1	:	340001804 0001	Gray, cr	ushed stone aggregate	000		-
2-						Brown, fi	ine to coarse sandy SILT, trace			-2
3-							own, TDI residue fragments, moist,	× ×		-3
ľ						(fill)	inii, TDI residue fragments, moist,	×××		
4-		,			SM005TB04-0305			× ×     × ×		4
5-			3-5	26		Same as	above	×××		-5
6-	$\mathbb{N}/$							×××		6
	W	'			1			×××		۸,
7-	X							×××		-7
8-								×××		-8
1	$V \setminus$	100		1.2				×××		
9-		100		1.2		Same as	above	×××		19
10-	<i>\                                    </i>						·	×××		10
11-	V							× × × ×		<b>-</b> 41
"	$ \Lambda $							×××		
12-	V							×××		<del>-1</del> 2
13-		100		23		Same as	above	× × × ×		-13
14-	<b>\</b> /						·	× ×		-14
,,	W							×××		<del>-1</del> 5
15-	] [							×××		
16-	$\ \cdot\ $				OMOOSTED 4 4047			×××		<b>⊣</b> 6
17-	/ \						of boring 17 ft	×××	Water at 16.5 ft.	1,
l N	OTE	٥.								/

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PPO	JECT	r NIAME	. Bav	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOO5-TBO	)3_
				SWMU		·	DRILLING (ft-bgs) 16.6		G.S. ELEV.640.638	
	11110	CETOL	Per	nsvlva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	]
DRI	rrin	G FIRM	1	HSA to	5 ft. / Geoprobe			•	START DATE 6/18/9	l l
					o it. / desprese	·	NORTHING -2699.96355			
LOG	GED	BY	. werk	man		<del></del>	EASTING 985.76318		FINISH DATE 6/18/	97
	Щ		<b>-</b> ∵	δυ						
DEPTH	GEOPROBE	RECOVERY (percent)	SAMP.	HNu Reading (ppm)	ANALYTICAL SAMPLE		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
出	Ä	) Sec.	AUGER DEPTH	문으	ID			SYI		
	<u> </u>	2 3	A E	王	-	A so bolk s				
		ļ			SM005TB03-0001		pavement	00		
1-	1		0-1			Crusnea	stone aggregate	[ O ]	Shelby tube pushed	H
		ļ 1		i				000	from 1 to 3 ft.	
2-	1				<u> </u>			00		-2
3-			1-3	0			ne to medium sandy SILT, trace			-3
						clay, (fil	1)			
4-	-				SM005TB03-0305					4
			3-5	0						_
5-			3-5	"		As above	•			5
	$\mathbb{N}$									6
6-	٦٧									
	J Y									-7
-	1/\									
8-	$H \setminus H$						wn to black, TDI residue, damp,	×××	•	-8
	1	100		0		(fill)		^×^		
9.		1 .00						××		19
10-	]\ /							××		<b>4</b> 0
"	W							×××		
11-	-  X							×××		-11
	I۸							× ×		
12-	╢\							×××		<del> 1</del> 2
	\ \ \	70		0				×^×		<b>⊢</b> 13
13.	$\nabla$	1						×^×		"
14	$\triangle$	15		0				× ×	Shelby tube pushed	-14
1	1	1					l-brown, fine to coarse sandy w fine gravel, few TDI residue	** **	from 14 to 16 ft.	
15	- \ <i> </i>				SM005TB03-1416	fragment		X XX.		-15
	11							X XX		
16	1  K							X XX		<b>⊣</b> 6
								X XX.	Water at 16.6 ft.	-17
17	7/\					Dalla-	of haring 10 ft	X XX.		"
, 18:		75		9		DOLLOW C	of boring 18 ft	X X		⊥ <sub>18</sub>
	NOTE	S:	nd Flev	ations i	n feet unless otherw	ise noted	5. ft-bgs-feet below ground s	urface		

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

PROJECT NAME Bayer Corp., New Martinsville, WV						le, WV	WATER LEVELS		BORING SMO05-TE	302 <sub>-</sub> "	
				SWMU			DRILLING (ft-bgs) 8.8, 20.9		G.S. ELEV.640.295		
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/		
					5 ft. / Geoprobe	<del>;, , ,</del>			START DATE 6/19/97		
		BY_					NORTHING -2763.84666				
LUG	3EN	BY	o. WCIT	· · ·			EASTING_1115.72160	FINISH DATE 6/19	707		
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
					SM005TB02-0001	Crushed	stone aggregate				
1-			0-1	0.3			-brown, fine to coarse sandy			Ħ	
2-							ce fine gravel, polycarbonate I clay, (fill)			-2	
-				<u> </u>						1	
3-	1		1–3	0						-3	
١,	İ			,	CHOOSEEDON 0305			5= 5		4	
4-	}				SM005TB02-0305		k gray, fine to coarse sandy le cinders/ash, few TDI residue	<u>}                                    </u>			
5-			3-5	389	ļ		s, trace clay, (fill)	/ <del>* *</del>		-5	
	N /					Very dar	k gray, fine to coarse sandy	/ <del> -</del> × -		-6	
6-	1\/					SILT, sor	ne TDI residue fragments, trace			ſ	
7-	Į V	Ì			SM005TB02-0509	clay, (fill	)			-7	
	I۸	•						—× — ×— ×-			
. 8-	1/ \			ļ						81	
9-		60		682					Water at 8.8 ft.	9	
	N /			1				~~ ×-			
10-	$\mathbb{N}$							<del>×</del>		<del> 1</del> 0	
11-	IV								•	<b>-11</b>	
"	I۸							<u> </u>			
12-	<del>ا</del> / ا			İ	-	Dark oras	y, fine to coarse sandy CLAY,			H2	
13-		100		0			e gravel, (CL)			-13	
"	N /	1									
14-	$\mathbb{N}$									<del> </del> 14	
,,	١V								•	<b>-1</b> 5	
15-	١٨					Brown, fil	ne sandy SILT, trace clay, moist			'	
16-	/				SM005TB02-1517	(ML/SM)				<del> 1</del> 6	
	1	45		60.2						17	
17-		45		00.2						-17	
18-	\ /			1						<del> </del> 18	
	V			1							
19-	X			1	SM005TB02-1820					19	
20-	/									-20	
	/ \					D-11	f haring 01 ft		Water at 20.9 ft.		
21-	OTES	<u>. 55</u>	L	0.7	<u> </u>	BOLLOW 0	f boring 21 ft			-1-21	

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 Geoprobe samples marked with crossed boxes
 Auger samples marked with depth intervals

<sup>5.</sup> ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

I PRO.	IEC:	ΤΝΔΜΙ	- Bay	er Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING SM005-TB01		
				SWMU			DRILLING (ft-bgs) 16.6		G.S. ELEV.641.350		
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A		
					5 ft. / Geoprobe	<del></del>			START DATE 6/19/		
		BY_					NORTHING -2840.60004		· ·		
LUG	GEU	BY	J. 11C11	·	· · · · · · · · · · · · · · · · · · ·		EASTING 868.70938	<del></del>	FINISH DATE 6/19/	-	
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
1-			0-1	0	SM005TB01-0001		one aggregate, sandy SILT matrix, damp, (fill)	0 T 0 T		-1	
2- 3- 4-			1-3	O	SM005TB01-0305	Brown Si fine grav	(LT, fine to coarse sand, trace /el, (fill)			73	
5- 6-			3-5	21						-6  -7	
8-	$\left\{ \left[ \left\langle \cdot \right\rangle \right] \right\} =0$	75		40		Brown to	b black TDI resin, (fill)	× × ×	40ppm on HNu at 8.5 ft-bgs.	-8	
9-	$\bigvee$						prown, clayey, fine to coarse ew fine gravel, subangular, damp,		0.5 It-bgs.	<del>-1</del> 0	
11-	l۸						ny clayey SILT, trace fine to sand, (ML)			H1 H2	
13-		80		0		Yellow-b	prown silty CLAY, trace fine to			-13	
14-						coarse s	sand, (CL)		SM005TB01-1416 collected from 14.6	H4 H5	
16-	$\left\{ \left[ \right] \right\} $				SM005TB01-1416				to 16.6 ft.	-16	
  }  } 17-	<u>L</u>	100		0		Bottom	of boring 17 ft		Water at 16.6 ft.	17	
	OTE	S:									

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

PPO	IEC.	TNAME	- Bav	er Cor	p., New Martinsvi	lle, WV	WATER LEVELS		BORING SMOO4-TE	06
				SWMU			DRILLING (ft-bgs) N/A		-G.S. ELEV.628.127	
DDT	טאוב	CCETO	Pen	nsvlva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A	_	CASING ELEV. N/	4
DKIL	LLIN	G FIRM	1 <u> </u>	Hollow	Stem Auger/Spli	Spoon			START DATE 10/29	
					Stem Auger/Spli	COPOOI	NORTHING 1085.41963			
LOG	GED	BY_E	s. Squii	re			EASTING -2967.08632		FINISH DATE 10/2	9/90
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	\/		2				ndy clay soil, little organic matter, plastic, damp, (fill)	/		
1-	$\left  \right $		1			Brown an to damp,	d white fine grain ash, loose, dry (fill)			
2-	( /	<25	1			As above	e, white, v. fine to fine, saturated			-2
3-	$\left\{ \right\}$		1			As above	e, brown, damp			-3
4-	<u> </u>	25	1 1/12	0			nd white, v. fine to coarse ash, sket of grease (?), (fill)			4
5-	$\left  \right\rangle$		1/12			Sillali poc	iket of grease (t), (iii)			5
6-		25	wh/24	0		Brown an	nd white, v. fine to fine ash, loose, d, (fill)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6
7-	X								·	-7
8-	<u> </u>	<25	wh/24	0		As above	e, v. fine to coarse			8
9-	$\left  \right $									9
10-		<25	wh/24	0		As above saturate	e, brown, fine to coarse, wet to d			10
11-	$\left  \right $				SM004TB06-1012					-11
12-	( )	100	5	0			ay clay, stiff, med. plasticity,	**************************************		-12
13-	$\left  \right $		6		SM004TB06-1214	damp, (C	CL)			-13
	//	50	8	0		Bottom o	of boring 14 ft			
14-	IOTE	1	<u> </u>	<u>.                                     </u>		L				<del></del> -(

#### NOTES:

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

**BORING LOG** 

				over Co	o Now Martinevi	اللا مال	WATER LEVELS		BORING SMOO4-TBO	)5
					rp., New Martinsvi	ne, #v	DRILLING (ft-bgs) N/A		— G.S. ELEV.625.470	
Bo	RIN	G LOCA	TION.	SWMU	nio Drilling Co	· · · · · · · · · · · · · · · · · · ·	WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	_
					nia Drilling Co.				1	
				Split S	poon		NORTHING 1072.64768	·	START DATE 10/30/	
LO	GGE	D BY_	B. Sq	uire	<del> </del>		EASTING -3146.90623	<del></del>	FINISH DATE 10/30	/96
DEPTH	C CAMBIE	S.S. SAMPLE RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	1					to low pl	fine sandy clay, soft, nonplastic asticity, damp, (fill)	/ <del>***</del>		
	1-	<29	5	0	•	TDI resid	due, loose, wet to saturated, (fill)	**** **** **** **** **** **** **** **** ****	Ground too soft for drill rig; split-spoons pushed by hand	<b>-</b> 4
	3-							XXXXX XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX		<del>-</del> 2
	4	<2	5	0				X X X X X X X X X X X X X X X X X X X		-4
	5-		-		SM004TB05-0406	Brown ar (fill)	nd white ash, loose, saturated,	X X X X X X X X X X X X X X X X X X X		5
	a ∤	100	)	0		damp (C				-6
		$\langle  $			SM004TB05-0607	mottles,	own v. fine sandy clay/silt, black stiff, nonplastic, damp, (CL/ML)			
	$\parallel$	50		0		Bottom	of boring 7 ft		·	
	2. 3.	Depths	assific tht of t	ation bas nammer	n feet unless other ed on visual-manua		5. ft-bgs-feet below ground su 6. ft-msl-feet above mean sea		Page 1 of 1	7

BORI DRIL DRIL	NG LIN LIN	LOCA G FII G ME	ME_Bayer Corp. ATION_SWMU 00 RM_Microseeps THOD_Geoprobe G. Werkman	5	Martinsville, WV	WATER LEVELS RELATIVE TO G.S. DURING DRILLING (ft-bgs) N/A WELL LEVEL N/A  EASTING 1116.11 NORTHING -2874.87	·		A 99	*
DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН	
10 - X		3	SM005TB11-0305	0	moist	elly, clayey, SILT, some sand, dense,			фф	
NOTES: 1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. NS-Not surveyed 4. NE-Not encountered						es		Sheet 1 of 1		

#### BORING LOG

ROJECT NAME Bayer Corp., New Martinsville, W	WATER LEVELS		BORING SMOO5-TB11	
BORING LOCATION SWMU 005	DRILLING (ft-bgs) N/A		G.S. ELEV.641.420	
DRILLING FIRM Pennsylvania Drilling Co.	WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	<u> </u>
DRILLING METHOD HSA to 5 ft. / Geoprobe			START DATE 6/19/	
LOGGED BY G. Werkman	NORTHING -2869.80332	<del></del>	FINISH DATE 6/19/	
LOGGED BY	EASTING_1095.92991		FINISH DATE 57.157	<u> </u>
GEOPROBE RECOVERY (percent) AUGER SAMP. DEPTH (FT.) HNu Reading (ppm) Transport (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	rown, fine to coarse SAND and fine to edium, angular GRAVEL, little clay (fill)			
2-				-2
3- 0				-3
4- SM005TB11-0305		0 0 0 0 0 0 0 0		-4
3-5 0				-5
6-		0 0		-6
7	efusal, concrete; Bottom of boring 7.5 ft	0 0		-7

#### NOTES:

- 1. Depths and Elevations in feet unless otherwise noted
- 2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

**BORING LOG** 

200 IE	OT NAM	- Bay	ver Cor	p., New Martinsvill	e. WV	WATER LEVELS		BORING SMOO5-TE	310
	G LOCA				<u> </u>	DRILLING (ft-bgs) 11.0		-G.S. ELEV.640.876	
BORTN	G LUCA	Per	nsvlva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/	
				5 ft. / Geoprobe	<del></del>			START DATE 6/17/	
	D BY					NORTHING -2582.40267	<del></del>	FINISH DATE 6/17	
	U DI	1 "				EASTING_1049.82822	<del></del>	FINISH DATE	<u> </u>
DEPTH	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPȚION	SYMBOL	REMARKS	DEPTH
				SM005TB10-0001	Asphalt p		( <del>0</del> :: <del>0</del> :		
1-		0-1	ļ			n, fine to coarse sandy SILT, edium gravel damp, (fill)	<u>-</u>		Ħ
2-							<u> </u>		-2
3-		1-3	50			- <b>h</b>	<u> </u>		-3
٦٦					Same as a	adove	<u>0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -</u>		
4-				SM005TB10-0305			6 - 6 6 - 6		4
5—	_	3-5	326		<del></del>				-5
6-	$\Lambda$			SM005TB10-0507		rn, fine to coarse sandy Y, fine gravel (fill)			-6
7-	<b>/</b>					un, TDI with fine to coarse sandy	×- ×-		-7
.  /	`\				SILT, dam	ip (fill)	X X-   X   X X-		l <sub>8</sub>
8-/	$\setminus$		1	<u> </u>			_× _		١
9	100		425	<u> </u>		e to coarse sandy CLAY (fill)	0-0		19
10-	/	ļ				in to very dark gray, fine to andy SILT with fine gravel, trace	<u> </u>		-10
- 11	/				black glas to saturat	ss, organic matter and TDI, wet	<u> </u>		-11
11-	۸I		Ì		to satura	ted (till)	<u> </u>		"
12-//		1		SM005TB10-1113			6 - 6		<b>H</b> 2
13	50		426		Same ac:	above, saturated grading to damp	<u> </u>	Water at 13 ft	H
Λ	1				Cuille do l	aboto, valui aloa graamig to damp	0 - 0 - 1 0 - 0 - 1	,-	
14-	Л						6 - 6 - 6 -		14
15-	X I						<u> </u>		HE
16-	<b>'\</b>						9 - 6 - 6 - 6		H6
~ /	\		20.0						
17	50		30.8		,		<u> </u>	•	-17
18-	/			SM005TB10-1719	Brown, TE	DI residue (fill)	××		-18
"	V				Dark gray	, clayey SILT, tr fine sand (fill)	X X		49
19-	<b>/  </b>	1			Brown, TC	DI residue, wet (fill)	××	Water at 19.3 ft	
20-/	$\setminus$			1	Dark gray	/, clayey SILT, wet (ML/CL)			-2
21	75	<u> </u>	0.8_		Bottom of	f boring 21 ft	VIII	<del></del>	

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 Geoprobe samples marked with crossed boxes
 Auger samples marked with depth intervals

5. ft-bgs-feet below ground surface

6. ft-msl-feet above mean sea level

.] `'₽RO√	JEC	T NAME	Bay	yer Cor	p., New Martinsville	e, WV	WATER LEVELS		BORING SMO05-TB09		
				SWMU		<u>.</u>	DRILLING (ft-bgs) 9.0		G.S. ELEV. <u>640.429</u>		
DRIL	LIN	G FIRM	<u> Per</u>	nsylva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/		
DRIL	LIN	IG MET	HOD_	HSA to	5 ft. / Geoprobe		NORTHING2732.02830		START DATE 6/19	/97	
		BY(					EASTING 1056.11298		FINISH DATE 6/19	/97	
		1			T				<u> </u>		
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH	
							pavement				
			0-1	10	SM005TB09-0001		brown, fine to coarse sandy SILT, rushed stone fragments, TDI				
] 1-						residue		-:-		Γ	
1											
2-	1			}						-2	
							ay, fine to coarse sandy SILT, few				
3-							idue, trace crushed stone nts and clay (fill)			-3	
ł						,. ogo.	ito dila olay (viii)				
4-					SM005TB09-0305					-4	
			ł								
``)	ŀ	ĺ	3-5	12						-5	
/ 5- 		1					idue with dark brown, fine to coarse	×- ×-		ľ	
ļ	1					sandy s (fill)	silt, trace clay and decaying wood	X X 			
6-	1\/	1			1					<del> </del> 6	
	W							× × ×-			
7-	1 1		1					<del></del>	·	-7	
	$ \Lambda $										
8-					SM005TB09-0709		MADE TO THE PART OF	× <del>-</del> ×-		-8	
	$\  \ $	$\setminus$	İ					× ×-			
		75		32				×— ×- -× - ×— ×-	Mater at 0.0	<b>.</b> 9.	
9-		1						~~ ~ ~~ ×	Water at 9 ft.		
		/									
10-	11/		1							-10	
	V										
11-	Y									<b>-</b> 11	
	$ \Lambda $							×			
12-	$\ \cdot\ $							× ×-		H2	
"	$\  \  \ $	$\parallel$						<del>X</del> X-   <del></del> -X  X X-			
	V	75		0		Bottom	of boring 13 ft	×- ×-			
13-		•	-							13	

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

DDO	וברז	r NIAME	- Bav	er Cor	p., New Martinsville	e, WV	WATER LEVELS		BORING SMO05-TB	<u>08</u>
				SWMU (		···	DRILLING (ft-bgs) 13.6	·	G.S. ELEV.640.623	
BUK.	ING	LUCAI	IUN Per	nsvlva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
									START DATE 6/18/	
				Geopro	, oc		NORTHING -2800.57296			
LOG	GED	BY_	s. werk	man		<del></del>	EASTING 976.91773		FINISH DATE 6/18/	91
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM005TB08-0001	Crushed	stone aggregate (GP)	10	·	1 1
١.	N /				SM0031 B08-0001		prown, sandy SILT, few crushed			
1-	11/		!			stone, tr	ace TDI and gravel (ML)			
١,	1 1									-2
2-	1٨									
١,	$I/\Lambda$									-3
3-	1/\									
	<b>y</b> \	58		0	OVERTED STATE					
4-		1			SM005TB08-0305		ndy SILT, few crushed stone and			
١.	N /				ļ [	clay, tra	ce TDI and gravel (ML)			-5
5-	11/									ľ
	IV									" / هـا
6-	1 1		ì							[ ]
1	М									<sub>-7</sub>
7-	1/ \		1					[]		ΓΙ
	1	60	ŀ	44						
8-	$\vdash$	1 00		""						8
ĺ	1	/								
9-	{\ <i>[</i>		ŀ		ľ					P
	W				}					
10-	$+$ $\chi$									H0
	1/\									
11-	<b>∤/ \</b>		1							11
	<b>//</b> \	V							SM05TB08-1113	
12-	1_	40		10		Same as	above with pieces of decaying		collected from 11.6	H2
	١.	Λ			SM005TB08-1113	boow			to 13.6 ft.	
13-	<i>∖\                                    </i>		Ì		Sincoo inc					<del>-1</del> 3
	W								Water at 13.6	
14-	<b>↓</b> ¥								אסנכו מו וש.ט	-14
'	1								-	
15-	$\rfloor / \backslash$									<b>H</b> 5
10.	<b>)</b> / \	\[								
"		80		49.7		Bottom	of boring 16 ft			<u></u>
16-	IOTE	· C.								ì

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. Geoprobe samples marked with crossed boxes
  4. Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

BORING LOG

√PRO⊾	JEC1	Г NAME	Вау	er Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING SMO05-TE	107
				SWMU			DRILLING (ft-bgs) 5.0		— G.S. ELEV. <u>632.927</u>	
					nia Drilling Co.		WELL LEVEL (ft-msi)_N/A		CASING ELEV. N/	4
DRI	I TN	GMET	ноп	HSA to	5 ft. / Geoprobe	E			START DATE 7/16/	97
		BY_6					NORTHING -2891.07060		FINISH DATE 7/16	
100	שו	D1		1			EASTING 1050.46048	<del></del>	FINISH DATE	$\overline{-}$
DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
,_			0-1		SM005TB07-0001	coarse (	own gravelly SAND, few silt, fine to gravel, fine to coarse sand, and boulders, damp (SW)			H
2-							wn sandy GRAVEL, fine to coarse e to coarse gravel, few silt, trace ist (GW)	0000		-2
3-			1–3	0				000		<del> -</del> 3
4-	İ				SM005TB07-0305			0.00	Perched water at	T4
5-			3-5					0.00	5.0 ft-bgs.	-5
6-	╢							0.00		-6
7-	$ \lambda $				,			0.00		-7
8-	//	30						0.00		8
9-		30		0				000		9
10-	V						·· ·····	0.00	·	<b>⊣</b> 0
11-	$ \Lambda$							).O.0 O.:0		H1 H2
12-	\	55	P	0		_	ay sandy CLAY, fine to coarse tle silt, trace fine gravel, saturated			-13
	1	1				No reco	very	<u>ا</u>		
14-	V									14
15-	11									45
16-	V	V				D-41	of basing 17 ft			H6
17-	1	0_	1	1	<u> </u>	Bottom	of boring 17 ft		<del></del>	17
	2. U	epths a SCS Cla	ssifica	tion bas	n feet unless other ed on visual-manua	l procedure	5. ft-bgs-feet below ground so 6. ft-msl-feet above mean sea			
					ed with crossed bo vith depth intervals	xes			Page 1 of 1	

-				U FIACTIAL					
DO IEC	T NIAM	- Bay	er Cor	p., New Martinsville	e, WV	WATER LEVELS		BORING SMOOS-TE	306
NOVE	LOCAT	TON	SWMU	005	,	DRILLING (ft-bgs) 10.1, 17.3	<u> </u>	G.S. ELEV.639.152	
OKING	LUCA	, Par	nsvlva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	
RILLI	NG FIRM	4 <u></u>	HCA 4-	E # / Gooreha				START DATE 6/19	
				5 ft. / Geoprobe		NORTHING -2811.78762			
OGGE	) ВҮ <u>—</u>	3. Werk	man			EASTING 721.59473		FINISH DATE 6/19	1/9/
	Ī		- D						
DEPTH GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL			SYMBOL	REMARKS	₹
DEPTH EOPROB	OVE FCe	뜶	를 <u>경</u>	SAMPLE ID		MATERIAL DESCRIPTION	J. W.		DEPTH
۵   ۳	(일 (일 (일 (일 (일 (일 (일 (일 (일 (일 (일 (일 (일 (	HE WE					"		-
-	1					ne to coarse sandy SILT, with	20		
		0-1		SM005TB06-0001	crushed	stone aggregate, damp (ML)	Y-0,		H
1-		} ``			Brown, fi	ne to medium sandy SILT, few			1'
			}		clay, da	np (ML)			-2
2									15
		1-3				•	<u> :-</u>		
3-		1-3					[ <del>-</del>		-3
4-				SM005TB06-0305					-4
1									
5	_	3-5	2.3						-5
Ĭ	A							•	-
6-1	А								-6
$^{\circ}$	[]								- 1
_   \	'	ļ					<u>  - : - : - : - : - : - : - : - : - : - </u>		-7
77 1			İ				l — · -l		
-1I	\	l							8
8-//	\landar								Γ
- 1	100		0						
9	100		"	1	Same as	above	:-		P
N	/	7					<u> </u>		
10-	/\							Water at 10.1 ft.	<b>⊣</b> 0
- 11	/		Ì						1
11-1 Y				SM005TB06-1012					Ηı
- 1 ∧	( l								- [
12-		}					[-:-]		12
~	1								
,,	93		0		<b>5</b>	ahawa.			H3
13	7	}	1		Same as	above			
1	/								44
14- \	/								["
1/									
15-				<del></del>					H5
- 1/				1					
16-//		1		SM005TB06-1517			<u>                                     </u>		H6
	1	1			_		<u>   </u>		
V	100	1	0	1	Bottom	of boring 17 ft			_47

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

. <b>∐</b> `∵PR∩.	JECT	NAME	- Bay	er Cor	p., New Martinsville	e, WV	WATER LEVELS		BORING SMO05-TB	05
				SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV.649.287	
Den	I TNI	G FIRM	A Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/A	١
וזמח	L TNI	C MET	HUU.	HSA >	5 /Geoprobe >13 /	'HSA >32			START DATE 6/20	
					. Torres		NORTHING -2389.28379		FINISH DATE 6/20	
LUG	GED	B1`		1			EASTING_715.25474	<del>- 1 1</del>	FINISH DATE 5725	<del>, , , ,</del>
ОЕРТН	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
17-	X	5	7	0	-	Brown sil	ty CLAY, stiff, damp, (CL)	×××××××××××××××××××××××××××××××××××××××		- <del>1</del> 7
18-	$\left  \right $	50	7 13							-18
19-		50	13	0		Drilled in				-19 -20
21-	$\bigvee$		5 9 13			Brown sil (CL)	ty CLAY, trace sand, stiff, damp,			-21
: 22- ~	$\begin{pmatrix} 1 \\ 1 \end{pmatrix}$	80	15 13	0		As above	e, moist		Shelby tube pushed from 22 to 24	-22
23-	X	80	19 19	40	SM005TB05-2224				ft-bgs	-23 -24
25-	$\bigvee$		3 5			as above	•			-25
26-	$\frac{V}{V}$	80	9	0			wn, silty, clayey, SAND, moist,			-26
27-	$\left  \right $	70	8 10 11	0		(SM)				-27
28-		70	3		SM005TB05-2830	As above	•			-28 -29
30-	$\left( \right)$	50	3	0		As above	e, trace gravel, wet			-30
31-	$\left  \right $		3 3 4							-31
. I → 32-	$V \setminus$	60	3	0_		Bottom o	of boring 32 ft	1/1/1		⊥₃₂
	OTES	3:								- <del>-</del>

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   Geoprobe samples marked with crossed boxes
   Auger samples marked with depth intervals

- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

PRO.	EC	T NAMI	= Bay	yer Cor	p., New Martinsvil	le, WV	WATER LEVELS	•	BORING SMOOS-TEC	י <u>55</u>
				SWMU			DRILLING (ft-bgs)N/A		G.S. ELEV.649.287	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
					5 /Geoprobe >13	/HSA >32			START DATE 6/20/	97
					Torres		NORTHING -2389.28379		FINISH DATE 6/20	
LUG	ייייי	<u>БТ—</u>					EASTING_715.25474		FINISH DATE 57257	<u> </u>
ОЕРТН	38084039	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
					SM005TB05-0001	Yellow-bi	rown, sandy SILT, damp (fill)			
1-		!	0-1			<u>,                                     </u>				<sub>4</sub>
2-										-2
,						_				3
3-							ne to coarse sandy SILT, trace el and clay, damp, (fill)		Shelby tube pushed from 3 to 5 ft-bgs	
4-					SM005TB05-0305	9		-:-		4
					30001200 3000					
5-			3-5	0		An about				-5
	1					As above	•			
6-	$\mathbb{N}I$									6
	W									
7-	Y									-7
	$ \Lambda $									,
8-	N				SM005TB05-0709					-8
	$I \setminus$				1					
9-		80		42		As above	•			9
	$\backslash /$			}						
10-	X									10
	$/ \setminus$									
11-	(-)	50	}	0						<del>  1</del> 1
	\ /					Black mix	ture of TDI residue and tar-like	<b>X</b> X		
12-	X					material,	(fill)			-12
	$/ \setminus$					•				
13-	$\left( -\right)$	50	ļ	0						<b>⊣</b> 3
•	$\bigvee$	i				Black TD	I residue, wet, (fill)	- <del>× / ×</del>		
14-	X				SM005TB05-1315	J.Jon 1 D.		× * ×		14
	//	_				•		×××		
15-		5		0		-	black, TDI residue, dry to moist,	×^×	Water at 15 ft-bgs	<del>1</del> 5
	X					(fill)		×^×	,	
16-	V\ )TF	·	1	1	<u> </u>					46

- 1. Depths and Elevations in feet unless otherwise noted
- 2. USCS Classification based on visual-manual procedures 3. Geoprobe samples marked with crossed boxes
- 4. Auger samples marked with depth intervals
- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRA.	IECT	ГМАМЕ	- Bay	yer Co	rp., New Martinsvill	e, WV	WATER LEVELS		BORING SMOO4-T	B04
				SWMU			DRILLING (ft-bgs) 29		- G.S. ELEV.641.384	
וזפח	I TNI	G FIRM	Per	nnsylva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A	ι	CASING ELEV. N/	Ά
וזמח	LIN	C MET	1	Hollow	Stem Auger/Split	Spoon			START DATE 7/3/	
		BY_F			<u></u>		NORTHING 1116.52202		FINISH DATE 7/3	
LUG		DI	-				EASTING2877.20242	<del></del>	PINISH DATE	
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	·	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			3			As above organic :	e, brown-gray to red-brown, some matter			
22-	X		6.		1	0.920				-22
23-	$\mathbb{Z}$	30	13			As about				-23
	$\mathbb{N}$		5			As above	e, wet			
24-	IX I		8 15		SM004TB04-2325					-24
25-		50	13			As above	∍. moist			-25
••	$\mathbb{V}$		2				•			-26
26-	1/\		6	ļ						[``
27-	$\langle \cdot \rangle$	40	7			Ped-bro	wn, silty CLAY, trace sand, medium			-2
28-	$\mathbb{N}$	<u> </u>	5				ist to damp (CL)			-2
۰	$   \wedge   $		70							
29-	$\langle \cdot \rangle$	80	6		1	Red-bro	wn, silty CLAY, some gravel, wet			-2
30-	1		2	}		(CL)	· ·			-30
	$/\backslash$	70	3							3
31-	17	1 '	1				wn, silty, sandy CLAY, little gravel,			\[ \]
32-	łХ		!			wet (CL	)			-3:
33-	$V \setminus$	70								3
JJ	$\mathbb{N}/$	1	1				wn to brown-gray, silty, sandy,			
34-	1		1 2		1	CLAY, we	et (CL)			3
35-	V	80	6			Red~bro	wn, sandy, silty, CLAY, wet (CL)			-3
	$\mathbb{N}$	1	1 3			1100 010	, mi, canay, chey, carry net (car			
36-	]X		2							-3
37-	$\langle - \rangle$	20	.3			As above	e		•	-3
38-	JV		¦							-3
J0-			1							
39-	$\langle \cdot \rangle$	30	2			As abov	e ·			-3
40-	JV		;							4
,,,	$  / \rangle$		2			Bottom	of boring 41 ft			
41-	1	50	2			···-		1/////		-4
42-	<u></u>		<u> </u>	1	<u> </u> .				<del> </del>	Щ4

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   wh-weight of hammer
   wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

		_		vor Co	ra. Nou Mortinguill	o WV	WATER LEVELS		BORING SMOO4-TE	304
					rp., New Martinsvill	e, wv	DRILLING (ft-bgs) 29		— G.S. ELEV.641.384	
				SWMU		<del></del>	WELL LEVEL (ft-msl) N/A		_	
					nia Drilling Co.		WELL LEVEL (IC IIIOI)	<del>-</del>	CASING ELEV. N/	
					Stem Auger/Split	Spoon	NORTHING_1116.52202		START DATE 7/3/	
OGG	ED	BY_F	. Torr	es	<del></del>		EASTING -2877.20242		FINISH DATE 7/3/	/97
	ш			- CD		-				
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	111111
	X				SM004TB04-0001	Brown, s	ilty, CLAY, some gravel, damp (fill)			
'						Drilled in	terval			Γ
2-										1-2
3-	$\overline{}$		5		<del> </del>	Brown s	ilty CLAY, some gravel, damp (fill)			F
4-	X		5 7	ļ	SM004TB04-0305	2,	<b>3</b> 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2 - 2 , 2			F
5-	$\langle \cdot \rangle$	50	40 3			Brown, s	ity CLAY with gravel, damp (fill)			ŀ
6-	$\mathbb{V}$		2							ŀ
7-	$\triangle$	10	3			·				-
8-	$\bigvee$		3				ilty, sandy CLAY, some fine to ravel, moist (fill)			H
9-	$\triangle$	10	3 2			<del></del>				Ļ
0-	$\bigvee$		1				ray, silty CLAY, some rock s, medium plasticity, moist (fill)			H
11-	$\triangle$	15	2				UL OLAY (FUI)			H
12-	$\bigvee$		2			Brown-g	ray, silty CLAY, moist (fill)			
ıз-{	$\triangle$	15	3 5	1		Brown-g	ray, coarse SAND, moist (fill)			
14-	$\bigvee$		2 3				wn, silty CLAY, some granular moist to wet (fill)			
15-	$\triangle$	50	3 3			Black, fir	ne granular material, red, silty light brown, fine grained sandy			H
16-	$\bigvee$		2 7			material	(fill)			
7-	$\triangle$	10	6 6			_	ray, silty CLAY, stiff, moist (CL)			
, 8-	$\bigvee$		7 9			AS BDOVE	e, trace fine gravel			
	$\bigwedge$	20	9 12							
9-{	abla	20	2			As above	•			
ᅄ	XΙ		4 8							H
21_	<u>/ \</u>	_			<u> </u>			1///	<del></del>	Ц

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

) PBU	IECI	LNAME	- Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOO4-T	B03_
				SWMU		<del></del>	DRILLING (ft-bgs) 21		G.S. ELEV	
					nia Drilling Co.		WELL LEVEL (ft-msl)_N/A	<del> </del>	CASING ELEV. N/	
					Stem Auger/Split	Spoon			START DATE 7/8/	
					Otom //ugo//opine	<u> </u>	NORTHING	<del> </del>		
LOG	GED	BY_F	. 1011				EASTING		FINISH DATE 7/8	701
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	X	70	9		SM004TB03-1719					-19
19-			1				ray to red-brown, silty CLAY,			Πa
20-	X		1	į Į		medium p	lasticity, moist (CL)			-20
21-	$\backslash \backslash$	60	2							-21
"	N/		3				ilty CLAY, 0.25 inch layer of black, ceous material, medium plasticity,			
22-	łΧI		3			wet (CL)				-22
23-	$V \setminus$	50	5							<b>−23</b>
23-			3				wn, silty CLAY, trace sand, black			
24-	łΧ		4			carbona	ceous material, wet (CL)			-24
	//	50	5							٥٦
25- 		30	3			As above	<b>e</b>			-25
26-	V		5							-26
	$ /\rangle$		4							
27-	$\langle \cdot \rangle$	60	5 6			Red-bro	wn, sandy, silty CLAY, wet (CL)			-27
28-	V		6							-28
	$ \Lambda $		5							
29-	$\langle \cdot \rangle$	60	7 2		-	As above	e, some black carbonaceous			-29
	$\mathbb{N}$	}	3			material	s, come black carboniscos			-30
30-	1Å		2							30
31-		50	3			<del></del>				-31
1	$\mathbb{N}/$		2			Red-ora (CL)	nge-brown, sandy, silty CLAY, wet			ŀ
32-	1 X		5			,,				-32
33-	V	40	2							-33
33-	17	1	8				wn, silty SAND, some red-brown,			
34-	<b>∤</b> Χ	1	8			surr, sut	y CLAY, wet (CL)	(4/1)		-34
1	$ /\rangle$	40	10			Bottom o	of boring 35 ft			
35-	<u> </u>	40	°					- 1111		-35
! ⇒ 36-			<u> </u>							
	OTES	S:	- A P1 -		n fact unloss others	ادحاجم مداد	E ft-bac-foot below around su	rface		

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRO.	IECT	ΓΝΑΜΙ	Bay	yer Co	rp., New Martinsvil	le, WV	WATER LEVELS		BORING SMOO4-TI	B03
				SWMU					G.S. ELEV	 
					nia Drilling Co.		WELL LEVEL (ft-msi)_N/A		CASING ELEV. N/	
					Stem Auger/Split	Spoon			START DATE 7/8/	
					Otom Magery opine	Сросп	NORTHING		į .	
LOGO	3ED	BY'	P. Torr	E3			EASTING		FINISH DATE 7/8.	/9/
	LE.		Ε.	<u>g</u>						1
ОЕРТН	S.S. SAMP	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X				SM004TB03~0001	Brown, s	ilty, CLAY, some gravel, dry (fill)			
						Drilled in	terval			
2-										-2
3-							*			-3
	N/I		3			Brown, s	ilty CLAY, some gravel, damp (fill)			
4	XI		5		SM004TB03-0305					<del>-</del> 4
_	$V \setminus$	5	2							-5
5-	abla		3			Brown to	red-brown, silty CLAY, moist (CL)			
6-	ΙXΙ		3							-6
	$/\backslash$	20	5							
7-		20	7			As above	e			-7
8-	M		7							-8
	$ \Lambda $		7							1
9-	(-)	20	9			As above	e, trace gravel			-9
	V	ı	4							<b>⊣</b> 0.
10-	$\Lambda$		5						•	
11-	$\langle \rangle$	20	8			<u> </u>	·			<b>–</b> 11
	$\backslash / \! \mid$		6			No recov	ery ery			
12-	XI		8							-12
	$/\ ackslash$	0	7							-13
13-	$\Box$		7	ļ		No recov	very			٦
14-	VΙ		10							14
	$\Lambda$		12							
15-	$(\!-\!)$	0	13			Brown-0	ray, silty CLAY, slight plasticity,			<b>-1</b> 5
	$\backslash /  $		2 2			moist (C				40
16-	ΛÌ		4							<b>⊢</b> 16
17-	$\triangle$	80	4							-17
<b> </b> "	$\bigvee$	1	6		SM004TB03-1719		wn-gray, silty CLAY, little fine ew carbonaceous material, (CL)			
18-	$\angle \lambda$		7	L	1	yravel, T	en carponaceous material, (CL)	1///		

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

`∵PR∩	JEC1	T NIAME	- Bay	yer Coi	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMO04-TB	02
				SWMU			DRILLING (ft-bgs) 5, 19, 25		G.S. ELEV.636.615	
	, , , <u>, , , , , , , , , , , , , , , , </u>	LUCA	ı IUN	ากรุงไขอ	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
						Cnoon			<b>;</b>	
•					Stem Auger/Split	Shoon _	NORTHING_979.78062		START DATE 6/27/	
LOG	GED	BY_F	. Torr	es			EASTING -3085.33089		FINISH DATE 6/30	/97_
	ш			0	T	-				
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	$\mathbb{N}$		2				•			1
23-	$\left\langle \cdot \right\rangle$		3 6			Green-d	ray, silty, SAND, damp (SW)	779		-23
24-	V		7		1	Orcen g	rdy, sitty, damp (on)			-24
[	$ \Lambda $		3							
25-	$\left( \cdot \right)$		2 5			As above	e, wet			-25
26-	V		4							-26
1 20	$ \Lambda $		2	•			•			
27-	$\left\langle \cdot \cdot \right\rangle$		5		<u> </u>	As above	e			-27
28-	$\mathbb{J}V$		2							-28
1 20-	$\mathbb{I} \Lambda$		10	1				謹封		
29-	$\left( \cdot \right)$		8		i l	As above	9			-29
, I			5							30
30-	1		8							ا
<b>1</b> 31-	$\left\langle \cdot \cdot \right\rangle$		8	İ		As above				-31
			3							
32-	۱X۲		7							-32
33-	$\leftarrow$		8			As above	e, tan-gray			-33
1	$\mathbb{N}$		5			AS above	z, tun gray			
34-	IXF		5 6							-34
35-	$V \setminus$	60	7			As about	a arau			-35
"	$\Lambda /$		2		İ	As above	e, gray			
36-	X		2			Brown e	andy, silty, CLAY, wet (CL)			-36
37-	V	50	5							-37
"	$\Lambda$		5				ray grading to brown, silty, SAND,	建對		-
38-	+X		7		i	wet (SW)	)			-38
30	$V \setminus$	40	8					355		-39
39-	\ /	.	3			_	ray, silty, sandy, GRAVEL, wet	<u> </u>		
40-	+X		15		SM004TB02-3941	(GW)		<b>6</b>		40.
1	$V \setminus$	30	17 35					223		1
41-	$ \setminus $	30	33			As above	9			<del> -</del> 41
42-	1)							<u></u>		-42
1	$ /\rangle$			1		Bottom o	of boring 43 ft	<u> </u>		
43-	T			-		<del></del>		<u> </u>		<del>-4</del> 3
-\\\ 44-										<u> </u>
N	OTES	S:		_1!	a fact union of the C		E di han fant beleve some de	·	•	

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRO.I	FC	T NAME	- Ba	yer Co	rp., New Martinsvill	e, WV	WATER LEVELS		BORING SM004-TE	302
				SWMU			DRILLING (ft-bgs) 5, 19, 25		-G.S. ELEV.636.615	
DOM	I TN	G FIRM	A Pei	nnsylva	nia Drilling Co.		WELL LEVEL (ft-msl)_N/A		CASING ELEV. N/	Α
					Stem Auger/Split	Spoon		<del></del>	START DATE 6/27	
		BY_F			- <del></del>		NORTHING 979.78062		FINISH DATE 6/30	
				1	· · · · · · · · · · · · · · · · · · ·		EASTING -3085.33089	<del></del> _	FINISH DATE	<del></del>
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X				SM004TB02-0001	Brown, si	ity, CLAY, some gravel, damp (fill)	9/1		
1-						Drilled in	terval			Ħ
2-								1		-2
3-										-3
	$\bigvee$				CURA ATROS CASE	Brown, si damp (C	ilty, CLAY, some black silt, dry to L)			_4
4-	Λ		i		SM004TB02-0305					
5-	$\overline{}$		3		,		andy, CLAY, little black mottles,			5
6-	X		2			wet (CL)				-6
7-	$\triangle$	20	;							-7
	$\bigvee$		1			Light bro	own, silty SAND, wet (SM)			8
8-	Λ		2		1		wn, clayey, SILT, little black damp (ML/CL)			
9-		1	1		ļ	<u> </u>	wn, silty, CLAY, little black, angular			٦
10-	X	<u> </u>	3 2			mottles				10
11-	$\langle \cdot \rangle$		1			Dark bar	OLAV PHILE No. 1. computer			<b>-11</b>
12-	$\bigvee$		3 2		SM004TB02-1113		wn, CLAY, little black, angular high plasticity, damp (CH)			H2
	$/\!\setminus$	80	3 2	>100						
13-	$\overline{7}$	80	1	/100			ILT with little rock fragments, some	7777		H3
14-	X		1 2		]	dark bro	wn, silty clay, damp (ML/CL)			<del> </del> 14
15-	$(\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$		2	>120	-					-15
16-	$\bigvee$		6		}	Dark bro damp (C	wn, silty, CLAY, some black silt, L/ML)		•	- <del>1</del> 6
	$\bigwedge$		3	>400						
17-	$\langle \cdot \rangle$	1	5	>100		_	ading to green-gray, SAND, damp			H7
. 18-	X					(SW)			•	-18
19-	$(\ )$					As above	e, green-gray, wet			-19
20-	$\bigvee$		3 5		SM004TB02-1921		- C - C - M			-20
20-	$\bigwedge$		6		G1/1004   1502-1921					1
21	$\langle \nabla \rangle$		8			As above	e, some silty clay			-21
22_	) TES	L	<u> </u>	<u> </u>	I			W/1/2		

- 1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer 4. wr-weight of rods

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

l ⊧PR€	UEC	T NAME	. Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOO4-	TB01
		LOCAT					DRILLING (ft-bgs) 23, 29		_G.S. ELEV.630.53	31
	i i iv	י ביטע	Per	nsviva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV	
					Stem Auger/Split	Snoon			START DATE 7/2	
					Stell Adger/Split	эрооп	NORTHING 1065.80188		ľ	
LOG	GED	BY_F	. i orr	es			EASTING -3230.78901		FINISH DATE 7/	2/9/
	Щ		<b>⊢</b> _	D D						
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	$\setminus$	<del> </del>	3			As above	;			
18	$\mathbb{X}$		6 7		<u> </u>		anular to flakey material, wet,	XXXX XXXXX XXXXX		-18
19	$\frac{1}{1}$	40	8 2	0			odor (fill) y, CLAY, moist, noticible odor (fill)		•	-19
20	$\frac{1}{2}$		2		SM004TB01-1921					20
21	$\frac{1}{\sqrt{2}}$	30	2	140		No recov	Prv			-21
22	$\downarrow \bigvee$		3			NO TECOV	ciy			-22
23	V	0	4 2							-23
24	$\bigvee$	1	5 7			Brown-g wet (fill)	ray and red-brown, silty, CLAY,			-24
	$  / \rangle$	10	8 15	15						
25			3				akey material, gravel, pink and y material, red-brown clay, wet	800		-25
26	X		5 7		SM004TB01-2527	(fill)		80 80 80 80 80 80 80 80 80 80 80 80 80 8		-26
27	1	40	9 3	90			wn, silty, sandy, gravelly, CLAY			-27
28	$\frac{1}{2}$		3 5		SM004TB01-2729	odor (CL	k granules, damp to moist, slight .)			-28
29		50	7 6	50		Red-bro	wn, silty, SAND, wet (SW)			-29
30	$\frac{1}{2}$		6 8		SM004TB01-2931					-30
31	$\frac{1}{1}$	40	7	20		As above	•			-31
32	$\left  \right\rangle$		5							-32
33	V	40	9			Bottom o	of boring 33 ft			-33
34	NOTE	·S·			· · · · · · · · · · · · · · · · · · ·					<del>3</del> 4

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   wh-weight of hammer
   wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PPO I	ECT	NAME	- Bay	yer Coi	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOO4-TE	101
				SWMU			DRILLING (ft-bgs) 23, 29		G.S. ELEV.630.531	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	7
					Stem Auger/Split	Spoon			START DATE 7/2/9	
					Stelli Auger/Spiit	эрооп	NORTHING_1065.80188			
LOGG	SED	BYt	. Torr	es			EASTING -3230.78901		FINISH DATE 7/2/	91
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X				SM004TB01-0001	Brown, si	lty, CLAY, some gravel, damp (fill)			-1
2-					SM004TB01-0002	Drilled in	terval			_2
3								- ym		-3
4-	$\bigvee$		1 6 _		SM004TB01-0305	Red-bro	wn, silty, CLAY, few rocks, damp			4
5-	$\langle \rangle  $	20	7 7 3			As above	e, brown-gray, trace rocks			5
6-	X		3 2							-6
7-	$\langle \cdot \rangle$	70	1			Dark gra	y, silty, CLAY, moist (fill)			-7
8-	X									-8
9-	$\langle \rangle$	80	2			As above	e, trace rocks			9
10-	$\mathbb{X}$	00	3							10
11-	$\bigvee$	80	7 4				own, sandy, silty, CLAY with matter, moist (fill)			11
12-	$\bigvee$	50	3 6							H2
13-	$\bigvee$	JU	7			matter, t	ray, silty , CLAY with organic race light green, silty material,			H3
14-	$\bigvee$	70	5		SM004TB01-1315	moist (fi	li)			H4 H5
15-	$\bigvee$	. •	1 2			Brown-g	ray, silty, CLAY, moist (fill)			
16-	N	10	3							
17-1 N0	OTES	<del></del>		-					_ ,	"(

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

	PRO.	IFCI	 ΓΝΔΜΕ	- Bay	yer Cor	rp., New Martinsvill	le, WV	WATER LEVELS		BORING SMO03-TE	302
					SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV.637.283	
						nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	Δ
						Stem Auger/Split	Spoon			START DATE 6/24	/97
			BY_F					NORTHING 787.66948		FINISH DATE 6/24	
	LUGG					<del></del>		EASTING -3399.70914		LINISH DATE 3/2	<u> </u>
	ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
		$\bigvee$				SM003TB02-0001	Brown, S	OIL with sand and gravel, dry (fill)			
	1-		1				Drilled in	terval	7,7,7,		
	2-					·					ې س
	3 4	$\bigvee$				SM003TB02-0305	Angular, and silt	coarse to fine, GRAVEL, little sand (fill)			4
~.} ~ ]	5-			5				wn, SOIL with gravel, some silty red flakes, damp (fill)	X X X X X X X X		-5
	6-	X		10		;			X X X X X X X X		6
	7-	$\langle \cdot \rangle$		18	0	<u>-</u>	Dark bro wet (fill)	wn, sandy, silty SOIL with gravel,			-7
	8-	$\left  \right\rangle$	5	50					700 0 0 2 0		-8
	9-		5	12				wn, SOIL with coarse sand grain ets, wet to moist (fill)	×- ×- -× - -× -		9
	10-	$\backslash\!\!\!\setminus$		7	40		Fabric wi	ith light tan material and gravel	000		H0 
	11-	$\bigvee$		7				wn, silty CLAY and gray-brown L/ML) (fill)			-11
	12-	N	40	4							<del>-1</del> 2
	13-	$\bigvee$	10	6	0	-	As above				-13
~ ,	, 14-	OTES	<u> </u>	50	<u>L</u>		Ketusal;	bottom of boring 14 ft	7777		<u>Ц</u> 4

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   wh-weight of hammer
   wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msi-feet above mean sea level

. –							T		CMOOD TO	01
PRO-	JECT	T NAME	Bay	er Cor	p., New Martinsville	e, WV	WATER LEVELS		BORING SM003-TB	- 7
BOR	ING	LOCAT	ION_	SWMU	003		DRILLING (ft-bgs) N/A		- G.S. ELEV. <u>637.436</u>	
DRIL	LIN	G FIRM	<u>Per</u>	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	<u> </u>
					Stem Auger/Split	Spoon	802 62802		START DATE 6/24/97	
		BY_F					NORTHING_802.62892 EASTING3459.83484	FINISH DATE 6/24	/97	
				<del></del>	T .		EASTING	<del></del>		Τ-
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X				SM003TB01-0001	Brown, a dense, d	ngular gravel, some sand and silt, ry (fill)	400		
1-	1	1				Drilled in	terval			'
2-	$\left\{ \right\}$									-2
3-	1	<u> </u>						V_ V		-3
4-	$\bigvee$	<u> </u>			SM003TB01-0305		y-brown, coarse grain sand size conate, some silt and gravel, moist	X— X- 		-4
	$   \rangle \rangle$							~~ ×-		1
5-		<del>)</del>			<del></del>	Dark ora	ny, coarse sandy material with tan	*****		-5 %
	$\Lambda /$						e flakes, some rocks, damp (fill)	******		
6-	1 1				SM003TB01-0507			* * * * * * *		6
								[x*x*x] [x;x;x]	•	
7	<u>۱</u>	60		100		<b>4 5</b>				7
7-	$\Lambda$	7				AS above	e, piece of metal	*****		
	V			}			gering for a skilled risk PERF collectually PRFF	*		
8-	1 X				SM003TB01-0709		•			-8
	$   \rangle  $							[x;x;x]  x;x;x]		
9-	<del>-                                    </del>	60		50		Dark bro	own, clayey SILT, some rocks,			9
	$\mathbb{N}$		6			damp (f				
10-	<b>↓</b> ¥	1	6		SM003TB01-0911			4/1		10
	$    \rangle$		10							
	\ \	60	2		}					41
11-	1	1	3				own, clayey SILT, pieces of plastic,	× ,× (,×,/,		"
	$   \rangle /$					metal, re	ed substance, rocks (fill)	(×<		
12-	$\exists X$	}	4	1	SM003TB01-1113			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<del> 1</del> 2
	/		4				44. 4. 40.41			
13-	1	60	9	50	<u> </u>	Bottom	of boring 13 ft	/×/		<u></u>

- 1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer 4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

BORING LOG

BORING LOCATION	I ∖PROJE(	CT NAME	- Ba	yer Cor	rp., New Martinsvil	le, WV	WATER LEVELS		BORING SMOO2-TBO	03
DRILLING FIRM Pennsylvania Drilling Co.  DRILLING METHOD Hollow Stem Auger/Split Spoon  LOGGED BY P. TOTYES  TOTYES  ANALYTICAL SAMPLE  Brown-gray to black, silty SAND, wet (SM)  SM002TB03-IS17  As above  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  22  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  23  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  24  Brown-gray, silty, SAND, wet (SM)  25  Brown-gray, silty, SAND, wet (SM)  Brown-gray, silty, SAND, wet (SM)  25  Brown-gray, silty, SAND, wet (SM)  26  Brown-gray, silty, SAND, wet (SM)  27  Brown-gray, silty, SAND, wet (SM)  28  NOTES  Brown-gray, silty, SAND, wet (SM)  28  SOURCE SAND STREET INTERPRETABLE STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET S									G.S. ELEV	
DRILLING METHOD_ Hollow Stem Auger/Split Spoon   LOGGED BY P. Torres							WELL LEVEL (ft-msl) N/A _		CASING ELEV. N/A	<u> </u>
LOGGED BY P. Torres   NORTHING EASTING   FINISH DATE 172/97						Spoon			START DATE 7/2/9	)7
The content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the	•									
15	ļ	-	1							$\overline{\Box}$
Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Social State   Soci	DEPTH	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	SAMPLE		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
Brown-gray to black, sitty SAND, wet (SN)   SM002TB03-i5i7   SM002TB03-i5i7   As above   SM002TB03-i7i9   Red-brown, sitty, sandy CLAY, wet (CL)   Sitty   SAND, wet (SN)   SM002TB03-i7i9   Red-brown, sitty, sandy CLAY, wet (CL)   Sitty   SAND, wet (SN)   SM002TB03-i7i9   Red-brown, sitty, sandy CLAY, wet (CL)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sitty   SAND, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet (SN)   Sand, wet										
SM002TB03-I517   SM002TB03-I517   As above   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown, silty, sandy CLAY, wet (CL)   SM002TB03-I719   Red-brown,	/	50	9							45
SM002TB03-ISI7	T"	7	3			Brown-(	gray to black, silty SAND, wet (SW)			"
17		/	6							اما
As above -17   19	16-1	\	•		SMOO2TBO3-1517   					Γ''
As above    SM002TB03-1719   Red-brown, slity, sandy CLAY, wet (CL)     18   18   18   19   19   19   19		\ <sub>50</sub>	1						•	
18	17-	7 "	-			As abov	е			47
SM0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (CL)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (SW)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (SW)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (SW)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (SW)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (SW)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (SW)   Sm0021803-1719   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown, silty, sandy CLAY, wet (SW)   Red-brown,		/					•			
19	18-	(		1	SM002TB03-1719	Red-bro	own, silty, sandy CLAY, wet (CL)			H8
2	<b>I</b> //	\\		l	i		,,,			
20		→ 50				Gray an	d brown SAND wet (SW)			H9
Brown-gray, silty, SAND, wet (SW)  22- 40 6  23 40 6  7 10  24- 25 35 9  As above  Brown-gray, SAND, few fine to medium gravel, wet (SW)  28- 29 6  29 8  Bottom of boring 27 ft  28  NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  29 20 20 2 20 2 20 2 20 2 20 20 20 20 20 2	: \	/	2			Oray an	d brown, dans, wer (dil)			
21	20-	(	7	}						-20
Brown-gray, silty, SAND, wet (SW)  22-	I //	$\setminus \mid$	9		ļ					
Brown-gray, silty, SAND, wet (SW)  23  40 6 7 24  10 10 10 25  8 Brown-gray, silty, SAND, few fine to medium gravel, wet (SW)  24  As above  25  8 Brown-gray, SAND, few fine to medium gravel, wet (SW)  28  As above  29  8 Bottom of boring 27 ft  28  NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  28  28  28  29  20  21  22  28  28  28  28  28  28  28  28	21-	40	9				· · · · · · · · · · · · · · · · · · ·			-21
Brown-gray, SAND, few fine to medium  23  24  25  35  9  As above  26  27  NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	1 \	1	5			Brown-	gray, silty, SAND, wet (SW)			
Brown-gray, SAND, few fine to medium gravel, wet (SW)  23  24  25  35  9  As above  26  27  8  Brown-gray, SAND, few fine to medium gravel, wet (SW)  28  NOTES: 1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	22 \	/	6							-22
Brown-gray, SAND, few fine to medium gravel, wet (SW)  24  25  26  27  8 Brown-gray, SAND, few fine to medium gravel, wet (SW)  28  NOTES: 1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	"  /	\	6							
Brown-gray, SAND, few fine to medium gravel, wet (SW)  24  25  35  9  As above  28  NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	I /	40	6							
As above  24  25  35  9  Bottom of boring 27 ft  28  NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2. of 2	23	7	7	-						23
As above  As above  Bottom of boring 27 ft  Page 2 of 2  Page 2 of 2  Page 2 of 2	\	/	10			gravel, i	wet (SW)			
As above  25  26  27  Bottom of boring 27 ft  28  NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	24-	<b>\</b>	1							24
As above  As above  As above  28  NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	/	75	"							
Bottom of boring 27 ft  NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	25	<del> </del>   "	-			As abov	e			<del> -</del> 25
Bottom of boring 27 ft  NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	\	/								
Bottom of boring 27 ft  28  NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	26-	(								-26
NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	/	$\setminus$	-			Rottom	of boring 27 ft			
NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2	27	4	9							-27
NOTES:  1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  Page 2 of 2										
1. Depths and Elevations in feet unless otherwise noted 2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer  2. USCS Classification based on visual-manual procedures 3. wh-weight of hammer			<u> </u>	1		· · · · · ·				⊥28
3. wh-weight of hammer Page 2 of 2	1. E	Depths a								
	2. l 3. v	USCS Cla wh-weigh	ssificat It of ha	tion bas mmer					Page 2 of 2	

PROJECT NAME Bayer Corp., New	Martinsville, WV	WATER LEVELS	BORING SMOUZ-1803		
BORING LOCATION SWMU 002		DRILLING (ft-bgs) 15	— G.S. ELEV		
DRILLING FIRM Pennsylvania Drillin	ng Co.	WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
DRILLING METHOD Hollow Stem Au	iger/Split Spoon			START DATE 7/2/97	
	gar, opin opean	NORTHING		1	
LOGGED BY P. Torres	<del></del>	EASTING	· · · · · · · · · · · · · · · · · · ·	FINISH DATE 7/2/	91
ш - д					
[ [ N ] [ N ] [ N ] [ N ] [ N ] [ N ] [ N ]	TICAL IPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
SM002TE	Brown, s 303-0001 damp (fi	ilty, sandy, CLAY, some gravel, II)			
1	Drilled in	terval	- Y// <i>(0</i> )		H
2-					-2
3					-3
3	Red-bro damp (C	wn to brown-gray, silty, CLAY, L)			
2 SM002TE	303-0305				4
	·				
5 2	As above	e, brown-gray			
6-    3					-6
5   6   6					1
7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7	As above	e, red-brown			<del> -</del> 7
8-    9					-8
40 9 9					
9 2 2	As above	e, brown-gray, black stringers			9
10-					-10
.  /\  5					
11 80 5	As above	е			11
12-					-12
5					
13 50 5	As abov	е			-13
14-V. V. J. J. J. J. J. J. J. J. J. J. J. J. J.			Ta (a la A		

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

- (	PRO.I	EC1	NAME	. Bay	er Cor	p., New Martinsvi	lle, WV	WATER LEVELS	-	BORING SMOO2-TBO	02
4					SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV.649.451	
	neti	ı TN	G FIRM	Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A	<del></del>	CASING ELEV. N/A	
	DRTI	I IN	G MET	 HOD	Hollow	Stem Auger/Spli	Spoon	050.07040		START DATE 10/22/96	
			BY_E					NORTHING 853.97613		FINISH DATE 11/4/96	
								EASTING3085.37841	<del></del> -	TRAIDIT BATE	$\equiv$
	ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
		$\bigvee$		37		SM02TB02-4749	little grav	-like material with small fibers, vel, soft, moist, (fill)	100100		
	49-	(-)	100	50/4	334.1			coarse gravel, fine to coarse le clay, med. dense to loose, (fill) /			-49
		$\setminus$ /		47			<u> </u>	ty sludge, v. soft, low to med.			
	50-	V		54			plasticity	, saturated			50
		$\Lambda$		35				ne to coarse gravel, some fine to and, dense, saturated, (GW)	0000		<b> </b>
		$/\setminus$	85	29					0000		_,
	51–			20		SM02TB02A-5052	Didok g.	ay-brown, fine to coarse sand to coarse gravel, little silt, med.	0000		<del>-</del> 51
		$\bigvee$		21				dense, wet to saturated (SW/GW)	00:00		
	52-	X						•	0000		-52
	,	$/ \setminus$		25					00:00		
-	53-		75	14			Brown, fir	ne to coarse sand and fine to	00.00		-53
		$\ \ /$		16			coarse, w	vell rnd gravel, dense, wet	00.00		
	54 <i>-</i> -	V		18		SM02TB02A-5355	(SW/GW)		00.00		-54
	547	$\Lambda$		32		3M021B02A-5555			0000		
		$/ \setminus$	100	30					0000		
	55-	'	100	50			Hydropur	nch groundwater sample	0.00.0		<del>-</del> 55
						<b>[</b>					
	56-										-56
							-				
	57 <i>∸</i>										-57
	Į Ši						•				
								•			
	58-										<del>-</del> 58
	59~					SM02TB02-5860					-59
\	60_				<u> </u>		Bottom o	f boring 60 ft			60
	1 NO	DTES	3:								

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

ᇛᄼᄩ	CT N	ME.	Bav	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOO2-TB	02
				SWMU (		<del>-:</del>	DRILLING (ft-bgs) N/A		- G.S. ELEV.649.451	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	1
					Stem Auger/Split	Spoon			START DATE 10/22	
					atem Auger/apire	эрооп	NORTHING 853.97613		1	
.OG.GE	D BY	ь.	Squii	е			EASTING -3085.37841		FINISH DATE 11/4/	96
	S.S. SAMPLE RECOVERY	(percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	חבסטט
37	10	00	1 2 1				e, with layers of yellow-brown silty oft to med. stiff, damp, (fill)			3
99-	10	00 V	1 2 vr/24			As above	e, soft, moist, chemical odor, (fill)			P P
10-	$\langle  $						· .			4
41-		00	1	13.3		As above moist, (fi	e, soft, wet grading to damp to ill)			
13-	7	5	1	23		<b>.</b>				4
4-	$\sqrt{}$		1 2			AS adove	e, damp to moist			
5	10	00	1 2 1	60.1		-				
6-	$\langle  $		2						·	
7	10	00	2 4	86.6	SM02TB02-4749		ay, v. soft grading to med. stiff, d grading to moist/ damp, (fill)			-4
- 1/	V		16							L

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 wh-weight of hammer
 wr-weight of rods

5. ft-bgs-feet below ground surface6. ft-msi-feet above mean sea level

Page 4 of 5

**BORING LOG** 

~,	PRO.I	FCT	NAME	- Bay	er Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING SMOO2-TB	02_
					SWMU			DRILLING (ft-bgs) N/A		- G.S. ELEV. <u>649.451</u>	
						nia Drilling Co.		WELL LEVEL (ft-msi)_N/A		CASING ELEV. N/A	
						Stem Auger/Split	Spoon	NORTHING_853.97613		START DATE 10/22	<u>/96</u>
	LOGG	ED	BY_E	3. Squi	re			EASTING3085.37841		FINISH DATE 11/4/	96
		ш			<u></u>			LASTINO	T	!	
	ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
		$\bigvee$		3		SM02TB02-2425	Yellow-b	prown fine sand, med. dense, moist,	6 = 01 0   0		
	25-	()	100	3			(fill)	ne grain material, loose "soup",	f f		-25
	26-		,	4			saturate	=			-26
	27-		75	3			Yellow-b	orown fine sand, med. dense, moist (fill)			-27
	28	$\bigvee$		1			med. sti	wn v. fine sandy clay, soft to ff, slightly sticky, med. plasticity, moist, (fill)			-28
7		$\bigwedge$	50	1							
	29-	$\bigvee$		1			bright re	wn grading to brown sludge, occ. ed mottles, soft, med. plasticity,			-29
	30-	X		2			moist, (1				-30
	31-	/_\ \	75	2			Brown sl moist, (1	udge, v. soft, medplasticity,			-31
	32-	X		1				•			-32
	33-	$\left\langle \cdot \right\rangle$	50	2 wr/24							-33
	34-										-34
	35-		100	1				e, soft to med. stiff, moist grading , chemical odor, (fill)			-35
~ `,	36-			1		<u> </u>		. ,		<u></u>	⊥ <sub>36</sub>
_^	2	2. US 3. Wh	pths ai CS Cla -weigh	ssificat t of ha	ion bas mmer	n feet unless otherw ed on visual-manual		5. ft-bgs-feet below ground sur 6. ft-msl-feet above mean sea		Page 3 of 5	
	4	1. wr	-weigh	t of ro	ds						

#### **BORING LOG**

-								·	BORING_SMO02-TB	<u> </u>
					p., New Martinsvil	le, WV	WATER LEVELS			<u>02</u> .
				SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV. <u>649.451</u>	
DRIL	LIN	G FIRN	Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
DRIL	LIN	G MET	HOD_	Hollow	Stem Auger/Split	Spoon	NORTHING_853.97613		START DATE 10/22	/96
		BY_E				<u> </u>	EASTING -3085.37841	FINISH DATE 11/4/	96	
I					<u> </u>		EASTING			T
нтчэо	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	$\setminus$		10			No recov	rery			
	$\setminus \mid$		**							
13-	X		fi I	<u> </u>						⊣3
	$\mathbb{N}$		10				•			
	/ \	. 0	10		1					-14
14-	abla I	•	3				lack fine sandy clay, some fine	XX.		
	$\setminus /$						hin layer of red material, glass, d. plasticity, moist; Mid —	XX.		
15-	X.		10			orange-	yellow material and fine sandy	XX.		<del>-1</del> 5
	$\Lambda$		5				e gravel, soft, moist; Btm - black aterial, fine sand to med. gravel	XX. XX		
	/ \	50	2	0			se, damp, (fill)	x xx.		
16-						Maroon a	and black iron oxide, fine sand to			H6
	\ /		2			med. gra	avel size, loose to med. dense,			
47	V		1		SM02TB02-1618	saturate	d grading to wet, (fill)			47
17-	۸		2	,	SMU218U2-1016					1"
	/ ۱		-	ļ						
18-		75	1	0				<i>n ≤ n</i>		-18
						Hydropu	nch perched water sample			
'				1						1
19-					SM02TB02-1820					<del>  1</del> 9
					İ					-20
20-		ı								20
21-								_		-21
	\ /	1	1			No recov	very			ì
	$\mathbf{V}$									
22-	X	-	2							-22
	$\backslash \backslash$		1							
	/ \	0	2	0						
23-	$\overline{}$	1	.			Maroon a	and black iron oxide, fine sand to	10 = QI		<del>-23</del>
	X		1			med. gra	avel size, loose, saturated, (fill)	16 6		
24-	$\triangle$		1	<u>L</u>				\(\sigma\)		
NO	OTES	S:		_11	. faak wateer - H	.ioo ==1==	E ft_har_fact below around a	ırface		ſ
					n feet unless otherv ed on visual-manual		5. ft-bgs-feet below ground su 6. ft-msl-feet above mean sea		,	
3	. wh	-weigh	t of ha	mmer					Page 2 of 5	
	. Wſ	-weign	. 01 10	u 3						

PROJECT NAME_Bayer Corp., New Martinsville, WV  BORING LOCATION_SWMU 002  DRILLING FIRM_Pennsylvania Drilling Co.  DRILLING METHOD_Hollow Stem Auger/Split Spoon LOGGED BY_B. Squire  WATER LEVELS  DRILLING (ft-bgs) N/A  WELL LEVEL (ft-msl)_N/A  CASING ELEV. N/  NORTHING_853.97613  EASTING3085.37841  FINISH DATE_11/4	A 2/96
DRILLING FIRM Pennsylvania Drilling Co.  DRILLING METHOD Hollow Stem Auger/Split Spoon LOGGED BY B. Squire  WELL LEVEL (ft-msl) N/A  CASING ELEV. N/  NORTHING 853.97613  FINISH DATE 11/4	2/96
DRILLING METHOD Hollow Stem Auger/Split Spoon  LOGGED BY B. Squire  NORTHING 853.97613  FINISH DATE 11/4	2/96
LOGGED BY B. Squire NORTHING 653.97613  EASTING -3085.37841 FINISH DATE 11/4	
LOGGED BY B. Squire EASTING -3085.37841 FINISH DATE 10.4	/96
LASTINO	_
S.S. SAMPLE BLOW COUNT WE adding SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMBOL SYMB	DEPTH
Brown clay and fine sand, some rock fragments, stiff, low plasticity, damp to moist, (fill)  SM02TB02-0002  Brown clay and fine sand, some rock fragments, stiff, low plasticity, damp to moist, (fill)	
Black fine grain sludge and rock fragments, little well rounded gravel, bright red mottles, med. dense to dense, damp, (fill)	-2
Black fine to coarse grain sludge, some gravel, rock fragments, layer of slag, little clay, bright red mottles, med. dense, damp, (fill)	3
3- \ 41 \ 50   19   0   damp, (fill)	
SM02TB02-0305  Brown clay, little v. fine sand, little gravel,  (fill)	-4
Black, brown, green clay and sludge (stiff, damp) with orange— white-gray fine grained material, solid, dry, (fill)	5
White grading to yellow grading to pink-gray fine to coarse grain granular material, loose, damp, (fill)	-6
Black clay sludge, med. stiff, damp, (fill)	-7
Top - Black-brown fine to coarse grain sludge, thin layer of bright red fine grain	-8
granular material; Mid - black v. fine grain sludge; Btm - brown clay and rock fragments, (fill)	9
75 58 0 Red and brown-black clay, little yellow fine	10
sand, some med. to coarse gravel, med.  stiff, moist, (fill)	-11
12 75 5 0 6 6 6	

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface6. ft-msl-feet above mean sea level

PRO	JEC1	T NAMI	E Ba	yer Co	rp., New Martinsvi	lie, WV	WATER LEVELS		BORING SMOOZ-1BO	<u>01                                    </u>
				SWMU			DRILLING (ft-bgs) 19, 51	- G.S. ELEV. <u>650.118</u>		
DRTI	LTN	G FIRI	<sub>M</sub> Per	nnsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A	-	CASING ELEV. N/A	[
DRII	ITN	G MET	HUL	Hollow	Stem Auger/Split	Spoon			START DATE 6/25/	97
			P. Torr				NORTHING 925.62394		FINISH DATE 6/26	
1060	الا	ات	<del>,</del>	T			EASTING -3138.85019	<del></del>	FINISH DATE	
нічэо	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
41	X			20	SM002TB01-3941	As above	, piece of wood			-41
42-					SM002TB01-4143					<del>-4</del> 2
43-			1 1	20		As above				<b>-43</b>
44- 45-	$\triangle$	90	2			As above				-44 -45
46-	$\bigvee$		3				y, gravelly, SAND, damp (fill)	06		-46
47-	$\triangle$	90	6 7				y, gravery, Sand, damp (iii)	0 0		47
7'	N/I		2	ĺ		Red-brow	vn, CLAY, damp (CL)			(
48-	X		1 2							48
49-	$\langle \cdot \rangle$	90	3			As above				-49
50-	X		5 4			Black-gra	ay, silty, SAND and GRAVEL, damp	6 - 6 - 6 -		-50
51-	$(\cdot)$	90	5 5			(SW)		10 10 10 10		-51
52-	X		5 20			As above	, brown-gray			-52
53-	()	80	25			Gray-gre	en, sandy, GRAVEL, wet (GW)	00		-53
54-	$\bigwedge$							0.00		-54
55-			25			As above		000		-55
56-	XI		32 50		SM002TB01-5557	<b>5</b>		00		-56
57-		20	29			POLITOM O	f boring 57 ft	0.:0		-57
58-										-58
59~										-59
60- N(	OTES	S:	L	<u> </u>		<del></del>				L <sub>6</sub>

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 wh-weight of hammer
 wr-weight of rods

<sup>5.</sup> ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

1000			- Bay	er Cor	p., New Martinsvill	e. WV	WATER LEVELS	٠	BORING SMO02-TBO	01
				SWMU (			DRILLING (ft-bgs) 19, 51		G.S. ELEV.650.118	
							WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	,
DRIL	LIN	G FIRM	1 <u> </u>	Hollow	nia Drilling Co.	Spoon			START DATE 6/25/	
					Stem Auger/Split	<u> </u>	NORTHING 925.62394			4
LOG	GED	BY	P. Torre	es			EASTING -3138.85019	<del></del>	FINISH DATE 6/26	/9/
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
21-	$\times$	25	1 2 7			Red-browet (fill)	wn silty material, shards of plastic,			-21
22-	M		25							-22
23-		25	50 1			Dark bro	wn-red, silty material, some silty	-XXX		-23
24-	X		1			clay and wet (fill)	gravel, pieces of plastic sheeting,	// / / / / / / / / / / / / / / / / / /		-24
25-	$\langle \cdot \rangle$	30	7		-		wn-red, silty material, some gravel,	-		-25
26-	X		4			pieces of	f synthetic woven material, wet	* X		-26
I 27-	$\langle \cdot \rangle$		4		.	Red-bro	wn, SILT and SAND, some gravel,	<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>		-27
É 28-	X					wet (fill)		0.6	•	-28
29-	$\langle \cdot \rangle$	30	1/12			Layered	brown-black and brown, SLUDGE,	72		-29
30-	X		1/12		SM002TB01-2931	moist to	wet (fill)			-30
31-	$\left\langle \cdot \cdot \right\rangle$	80	5	100		Brown, S	LUDGE, some brown-black, silty			-31
32-	X.		2		SM002TB01-3133	material	with red flakes-and yellow-brown angular shard material, moist to			-32
33-	$\langle \cdot \rangle$	70	1 5	40		Layered	brown-black and brown, SLUDGE,	17		-33
34-	<del> </del> X		1			wet (fill)				-34
35-	$\langle \cdot \rangle$	90	3	20		As above	•			-35
36-	X\		1 1		SM002TB01-3537					-36
37-			3	>100	,	As above	e, pieces of black, angular, shard		·	-37
38-	X		3 2		SM002TB01-3739	ctcridi				-38
39-		90	2	>100	SM002TB01-3941	As above	•			-39
40- N	OTE	S:		<u> </u>	. 1			_[:/://		<del></del>
. ]			ad Elaid	ations i	feet unless otherw	haton asi	5 ft-bas-feet below around sur	rface		

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

ם אובי	OT ŠIAME	- Bav	ver Cor	p., New Martinsvill	e. WV	WATER LEVELS		BORING SMO02-TE	101
	G LOCAT					DRILLING (ft-bgs) 19, 51		- G.S. ELEV.650.118	
				nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	Α
				Stem Auger/Split	Spoon	005 00204		START DATE 6/25	/97
	D BY					NORTHING_925.62394 EASTING3138.85019		FINISH DATE 6/26	
						EASTING 5150.00010	1 1	1111011011011	T
DEPTH	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
				SM002TB01-0001	Brown, sa	andy, SILT, dry (fill)			],
T'					Drilled in	terval			
2-									2
3	7	5		-	Dark bro	wn, sandy SILT, some rocks,	×- ×-		-3
4-	$\langle   -  $	5 6		SM002TB01-0305	pieces o	f plastic, dry to damp (fill)	× ×- 		-4
5—	_}	12				TROM OVERE A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE			-5
6-		6 7 5			with yello	wn, IRON OXIDE, brown silty clay ow and red flakes, white sandy with some gravel, dry to damp (fill)			6
7-	40	6			Brown s	andy SILT with gravel, sticky,	- X-X-		-7
8-						terial with fine fibers, dry to damp			8
9-	30	5		-	Light ora	ay, gravelly, SAND, dry (fill)	-× - 0 0		9
10-		4			Light girl		0 0		10
11-	30	5 3		-	Dark bro	wn, fine silty material, some yellow	×××		H
12-		2 2				e material, dry to damp (fill)	××× ××× ×××		12
13-	30	1			Dark bro	wn, IRON OXIDE, gray-brown, silty	( × , × , )		43
14-	$\langle  $	3		SM002TB01-1315	clay with	yellow-gray, hard, flakey material e gravel, damp (fill)			-14
15-	40	1 5			Brown-h	lack, IRON OXIDE, moist (fill)			45
16-	$\langle  $	11 16							-10
17 -	95	13			As above	e, moist to wet			·  -
18-	$\langle  $	9			·				-10
19-	90	7		<u> </u>		wn, IRON OXIDE, some silty			4
<u>.</u> L	<u> </u>	1/12	<u> </u>		material	with red flakes, wet (fill)		<u> </u>	يلـ

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
- 3. wh-weight of hammer 4. wr-weight of rods

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

l PRO	JEC1	ΓΝΑΜΕ	. Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOOI-TBO	)7
				SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV. <u>634.684</u>	
DRTI	I TNI	G FIRM	Per	insylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	<u> </u>
DOT	.L.IN	C MET	1 <del></del>	Hollow	Stem Auger/Split	Spoon			START DATE 11/1/96	
							NORTHING 964.59121		FINISH DATE 11/1/9	
LUG	3EU	BY_E	o. Oqui				EASTING -2993.39397	<del></del>	FINISH DATE	<del></del>
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
14-	X	100	14 18				e, grading to red-brown, med. stiff, sl. plasticity, damp			-14
15-	$\left  \right\rangle$	}	7 10 8				own v. fine sand and silt, med.			<b>-15</b>
16-	$\left( \begin{array}{c} 1 \\ 1 \end{array} \right)$	100	9			dense, π	noist, (SM/ML)			<b>-16</b>
17-			10			As abov	e, moist to wet			<b>-17</b>
- 18-	<u> </u>	100	8							<b>-1</b> 8
19-			4 5		SM001TB07-1820	As abov	e, moist with wet zones			<del>-1</del> 9
20-	<u> </u>	100	4				own v. fine to fine sand, little silt, ense to loose, saturated, (SM)			20
21-	X		4							-21
22-	<u> </u>	100	5			Hydropu	nch groundwater sample			-22
23-										-23
24-	e .				SM001TB07-2226		•			-24
25-									•	-25
<b>│</b> ∷े 26-						Bottom	of boring 26 ft			

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PBO 1	ECT	NAME	: Bav	ver Cor	rp., New Martinsvill	le, WV	WATER LEVELS		BORING SMOOT-TBO	7
1				SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV.634.684	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
					Stem Auger/Split	Spoon	00.4.50101		START DATE 11/1/96	3
		BY_E					NORTHING_964.59121 EASTING2993.39397		FINISH DATE 11/1/9	
				,	1		EASTING ZOOS.SOOO!	T		1
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			8				wn v. fine sandy clay, some rock	000		
	VI		12				s, little well rounded, fine gravel, plastic, damp, (fill)	00		
1-	Λl		11		SM001TB07-0002		•	0.0		ř
	$/  \mathbb{V}$	25	13	0						
2-	$\square$		23			•				-2
			20					O C		
3-	ΙXΙ		21				e, brown, few pieces of white occ. cinders, (fill)			<del> </del> 3
	$/ \setminus$	50	19			cei aiiiic,	occ. Chaers, (iii)	0 0		1
4-	$\rightarrow$	50		0	SM001TB07-0305	Brown v.	fine sandy clay, rock fragments,			4
	$\backslash /$		6			pieces o	f brick, cinders, stiff, nonplastic,			1
5-	X		5			damp, (f	III <i>)</i>			2 /
	$/\backslash$		6							
6-		25	9	. 0		Proup of	ay, little v. fine sand, little white			6
	$\backslash /$		3				, soft, med. plasticity, damp, (fill)			
7-	Ŋ.		3		ļ .	Dad bas				-7
	$   \rangle  $		7				wn v. fine sandy clay, stiff, ic, damp, (CL)			
8-		25	12	0					OVM not functioning	8
	\ /		7						(wet)	
9-	V		9			As above	e, slight plasticity			9
	$ \Lambda $		11			25010	-,			
10-	igsqcup	100	13							40
.5	$\ \ \ /$		5							
11	V		7			<b>A</b> 4 -	and the terms to the second terms			
11-7	$ \Lambda $		9		}	black org	e, grading to gray-brown, some ganic mottles, med. stiff to soft,			
	$V\setminus$	100	11			med. to	high plasticity, damp			-12
12-			10							74
	X		12							
13-	OTES			l	<del>1</del>					—13 <sup>1</sup>

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRO	JEC.	T NAM	Bay	yer Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING SMOOT- 180	<u> </u>
				SWMU			DRILLING (ft-bgs) N/A		-G.S. ELEV.653.486	
DRTI	I TN	IG FIRI	<sub>M</sub> Per	nsylva	nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	<u> </u>
					Stem Auger/Split	Spoon	210 0 1110		START DATE 10/29	/96
		BY					NORTHING 812.24116	<del></del>	FINISH DATE 10/31	
200				·-			EASTING3253.05424	<del></del>	FINISH DATE	<del></del>
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
52-	X	100	12 24 23	0			fine to coarse sand, fine to med. ded gravel, loose to med. dense, SW)	0.0		-52
53-	X		37 48					0.0		-53
54-	( /	50	66 37	0				0.0		-54
55-	X	100	70	0		Drilled in	terval	0 0	•	-55
56-	$\bigvee$		31		SM001TB06-5658	rounded	coarse sand and fine to med. well gravel, dense, wet to saturated,	0 0		<del>-</del> 56 -57
्री 57− ∤। <b>1</b> 58−	N	75	26 17	0	SMUUTI BUO-5050	(SW)		0.0		-58
59-	$\bigvee$		15 17 18				e, gray-black grading to wn, little silt, med. dense,	0 0 0 0 0 0 0 0		-59
60-	<u> </u>	100	11				nch groundwater sample	0.0		-60
61-										-61
62-					SM001TB06-6065					-62
63-										-63
64-	1					Bottom c	of boring 65 ft			-64
65-										-65 ee
66-										-66 -67
│ 67- <sup>│</sup> 68-						- <del>.</del>				68
	OTE	S:								

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   wh-weight of hammer
   wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

DDA I	ECT	LVIVA	. Bav	er Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOOI-TB	06
						<del></del>	DRILLING (ft-bgs) N/A		G.S. ELEV.653.486	
BOKI	NG	LUCAI	IUN_ Per	SWMU	nia Drilling Co		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/	
DRIL	LIN	G FIRM	1	Halland	nia Drilling Co.	Cnoon			l l	
					Stem Auger/Split	Брооп	NORTHING_812.24116		START DATE 10/28	
LOGG	ED	BY_E	3. Squi	re			EASTING -3253.05424		FINISH DATE 10/3	1/96_
	ш	· · · · ·		D						
DEPTH	S.S. SAMPL	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID .		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			4				wn v. fine sandy clay, occ. well			
35-	V		6				gravel, little gray mottles, piece of ve, med. stiff, med. to high			-35
	M		10			plasticity				
36-		100	14	0						-36
	\ /		9							
37-	ΙXΙ		15							-37
	$ \Lambda $		15							
38-		100	15	0	· [					-38
	$\backslash /$		4							ŀ
39-	ΙXΙ		6			As above	e, damp to moist			-39
	$ /\rangle $		10				*			
40-		100	10	0						-40
ľ	$  \setminus  $		4							
41-	ΙXΙ		6			As above	e, damp with saturated zones			<del>  4</del> 1
	/		10							
42-	$\left\langle \cdot \cdot \right\rangle$	100	12	0						<del>-4</del> 2
	$  \backslash  $		7							
43-	ΙXΙ		6		SM001TB06-4244		e grading to v. fine sand and clay,			43
	$ / \setminus $		8				grading to med. stiff, non grading			
44	$\langle - \rangle$	100	10	0	<del></del>	grading	grading to low plasticity, saturated to damp			-44
	$\mathbb{N}$		5		:	gg				
45-	X		7		<u> </u>	Red-bro	wn v. fine to fine sand and clay,			<del>-4</del> 5
	$/\setminus$	100	7	0		grading	to red-brown v. fine to fine sand,	三三		1,0
46-		100	8	"			y, med. dense, moist to wet,			<del>-4</del> 6
	$ \backslash / $		6 8			(CL/SC)				17
47-	ΙXΙ		10		]					-47
	/ \	100	11	0						1.0
48~	$\langle \cdot \rangle$	100	"	"		Gray-bla	ack v. fine to fine sand, little clay,			<del>  4</del> 8
	\/	[	6				nse, moist, (SC)			1,0
49-	ĮΧ		7		]					49
[	/ \	75	7	0	]					
50-	$\langle \cdot \rangle$	, ,	5	"	}	Gray-br	own v. fine to fine sand, loose,	7		<del> </del> 50
	X		7				wet, (SP)			
51-	OTE:	N	<del></del>	<del>'</del>	<u> </u>			<del> </del>		-3

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

PRO	JEC.	T NAME	- Bay	yer Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING SMOOI-TBO	<u>6</u>
1				SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV.653.486	
					nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/A	· .
יםח		IG MET	HOD	Hollow	Stem Auger/Split	Spoon			START DATE 10/29	
		BY			<u> </u>		NORTHING 812.24116		FINISH DATE 10/31	
LUC			,	-			EASTING -3253.05424		FINISH DATE.	<del></del>
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	$\nabla$	1	10				e, little green-brown clay, occ. gments, damp to dry			
18	$\triangle$	<25	13				nd red iron oxide, soft, moist, (fill)			H8
	$\Lambda$	1	5			Digor G.	a rea ment emach contribution of this			
19	- <b> </b> X		7			Provin of	ay and well rounded gravel, little			<del>1</del> 9
	/\	25	8				d, loose, damp, (fill)			
20	T	25	wr/6	"		Brown sa	andy clay, few rock fragments, well			20
	$\mathbb{I}V$		2		CHOOTEDE ACCO		gravel, occ. black mottles, soft,			-21
21	٦٨		2		SM001TB06-2022	sı. pıası	icity, moist, (fill)			-
22	$\perp$	75	7	>1999			<u> </u>			22
"	$\Lambda$	1					on oxide, occ. rock fragments, aturated, (fill)			
23	٦Х					10056, 50	sturated, (IIII)			-23
.4	$   \rangle $	J	1			D- ali fas	second semplement	O. D.		
24	+	50	ŀ	82.4			agments, fine sand, some brown e debris, med. dense to dense,			24
						damp, (		]		_
25	┨		l			Hydropu	nch perched water sample			-25
						•				-26
26	7									[20
1					SM001TB06-2430					-27
27	7		ļ		3M0011 B00-2430					-
28										-28
٦										
29	4				}					-29
30	+-	1			· · · · · · · · · · · · · · · · · · ·	V fine	to fine sand, few red inclusions,			-30
	$ \cdot $	/	9			_	aturated, (fill)			
31	$\forall X$		7			Gray-br	own and black clay, little v. fine			-31
١	// \	75	10	3.6		-	oft to med. dense, med. plasticity,		•	20
32	$\top$	71	10			damp, (	1111)			-32
33	JV		13							-33
33	$\mathbb{I}^{I}$		14							
34		75_	14	0			<del> </del>			<u> </u>
	NOTE	S:								

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   wh-weight of hammer
   wr-weight of rods

- 5. ft-bgs-feet below ground surface
- 6. ft-msl-feet above mean sea level

			По.		o Nou Mortinguille	- W/	WATER LEVELS		BORING SMOOI-TB	06
					p., New Martinsville	e, wv	DRILLING (ft-bgs) N/A		G.S. ELEV.653.486	
				SWMU			WELL LEVEL (ft-msi) N/A			
					nia Drilling Co.		WELL LEVEL (IC 11131)		CASING ELEV. N//	
ORIL	LIN	G METI	HOD_	Hollow	Stem Auger/Split	Spoon -	NORTHING_812.24116		START DATE 10/29	9/96
_OGE	ED	BY_E	3. Squi	re			EASTING -3253.05424		FINISH DATE 10/3	1/96
<del>-</del>	111						EAG (1)(O			Ī
ᡓ╽	MPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL			ᇦ	REMARKS	] _
DEPTH	S.	OVE	الا 19 م	Reg (pp	SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL		DEPTH
٦ I	8.8	) 원 8	BLOI (Pe	로				5		-
$\neg$	$\overline{}$		5			Brown cla	y soil, sandstone rock fragments,			1
	V		6		CHOOLEDOS 10000		atter, little sand wood, stiff,			
רי	Λ		<b>i</b> 11		SM001TB06-0002		damp, (fill)			Ι'
2	/	50	15	0		Granular in damp, (fili	ron oxide, med. dense to loose,  )			-2
2-	\		13				grading to black iron oxide, occ	\\\_\\\		-
3_	V		17			sandstone	e rock fragments, med. dense,			<u> </u> 3
۱	Λ		18			damp, (fill				
4-	$\triangle$	50	20	0	SM001TB06-0305					-4
	$\setminus$		11							
5-	У	ļ 1	12					1 = 1		-5
	$ \Lambda $		11							
6-		50	9	0						. 6
ľ	$\backslash$		13					1281		
7-	χ	,	15		]			1 1		-7
	$ /\rangle$		5					"="		
8-	$\left( -\right)$	50	6	0	]					-8
	\ /		2		1					
9-	X	] ;	3			As above,	black-brown, med. dense to			-9
j	$ / \rangle$		2			loose, dan	np grading to moist			
10-	$\langle - \rangle$	50	2	0				"="		HO
	$\mathbb{N}$		10			Grav-bros	wn sand, gravel, rock fragments,	0.0		
11-	X		14				ned. dense, damp, (fill)	/====		11
	$/\setminus$	75	10 7	0		Black clay	//silt, some whiteand tan rock			١.,
12-	( -)	/5	10	"		fragments	, stiff, nonplastic, damp, (fill)	/ ID NI		H
	V		10			Red and b	plack iron oxide, loose, damp, (fill)			۱.,
13-	X		17	}	<u> </u>					H
	$/\setminus$	50	44	0	-	Gravel, ro $\setminus$ damp, (fill	ck fragments, dense, dry to I)	<u> </u>		1.
14-	(	"	49			<u> </u>	oxide, few yellow mottles, med.			H
_	V	,	41			dense, da				45
15-	M		19		]			1// 🔍 🕽		\[\frac{1}{2}\]
_	$V\setminus$	50	13	0	1		oxide, soft/loose, moist grading	1 1		1
16-	$\nabla$	1	9			to dry, (f		\ _ \ \ \ \		
	ιX		7	I	i					1

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface6. ft-msl-feet above mean sea level

. <b>I</b> `∜PROJ	ECT NAI	и <u>∈ Ba</u>	yer Co	rp., New Martinsvi	le, WV	WATER LEVELS		BORING SMOOI-TBO	05
	NG LOC					DRILLING (ft-bgs) 17, 35		G.S. ELEV.635.743	
				nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/A	4
				Stem Auger/Split	Spoon			START DATE 6/30/	/97
	ED BY_					NORTHING 1047.59996		FINISH DATE 7/1/9	
			T	· · · · · · · · · · · · · · · · · · ·		EASTING3325.86187		FINISH DATE 17110	<u> </u>
ОЕРТН	S.S. SAMPLE RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
21-	X	3 5					*-* -*- *-*		-21
	$\backslash /$	2			Red-bro	wn, silty, CLAY, moist (CL)			[2]
22-	XI	3 6		1					-22
23	$\bigcup_{5}$	8			_				-23
[23]	$\setminus$	6		120		ilty, CLAY with some black organic stiff, moist (CL)			23
24-	XI	8 7							-24
25	20	- I - '			Red-bro	wn, silty, CLAY, moist (CL)			-25
26-	$\bigvee$	7	1					•	-26
1 20-	$\Lambda$	6							20
I 27	10	5			As above	e			-27
)	$\bigvee$	5	1						
28-	Д	7							-28
29-	50				As above	9			-29
	\/	3 5							
30-	Χl	6							<del> </del> 30
31-	15	7			As above	e, gray-brown			-31
	\/	3			AU GDUN	5, g. 2, 5.0ml			
32-	XΙ	5 5							-32
33-	50			]		<u>-</u>			-33
}	\	8			Red-bro	wn, sandy, CLAY, damp (CL)			
34-	XΙ	10							-34
35-		1							35
	$\backslash \Lambda$	8			Red-bro	wn, SAND, wet (SW)			
36-	X	7	Ì						-36
37-	/ \ 20	10		]					27
<b>1</b> "7	$\nabla I^{-1}$	13		·	As above	e, some rocks	00		<del>-</del> 37
38-	X	40		SM001TB05-3739			00)		-38
1	/\ <sub>40</sub>	39 17			Bottom o	of boring 39 ft	کړه		
39-	7	"							39
√ <sub>40</sub> _			<u> </u>						L <sub>40</sub>
	TES: . Deoths	and Flev	ations i	n feet unless otherw	ise noted	5. ft-bgs-feet below ground sur	face		
2.		assificat	tion bas	ed on visual-manual					
	. wn-weig . wr-weig							Page 2 of 2	

					<del></del>					
PROJ	ECT	NAME	Bay	er Cor	p., New Martinsville	e, WV	WATER LEVELS		BORING SMOOI-TB	
BORI	NG L	OCAT	ION	SWMU	001		DRILLING (ft-bgs) 17, 35		-G.S. ELEV. <u>635.743</u>	
DRIL	LING	FIRM	Pen	nsylva	nia Drilling Co.	<del> </del>	WELL LEVEL (ft-msi) N/A		CASING ELEV. N/	
DRIL	LING	METI	-DD	Hollow	Stem Auger/Split	Spoon	1047 59996		START DATE 6/30	/97
			. Torre				NORTHING 1047.59996 EASTING -3325.86187		FINISH DATE 7/1/9	97
					<u> </u>		EASTING	T		
рертн	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X				SM001TB05-0001	Brown, s	silty, sandy, CLAY, (fill)			
1-						Drilled in	nterval			1.
2-				•						-2
					1					-3
3-	$\square$		. 2				own, silty, sandy, CLAY, some fine			
4-	X		1		SM001TB05-0305	to medic	ım gravel (fiil)			-4
5-	$\langle \cdot \rangle$		3			Gray-bi	own, silty, sandy, CLAY, moist (fill)			-5
6-	M		2							-6
	$ \Lambda $		3							
7-	(-)		5 2			Red-bro	own, silty, CLAY, some gravel (fill)			<b> </b> 7
8-	V		2							8
	/	40	1							
9-	$\square$	10	2			No reco	very			P
10-	IXI		2							H0
!	/	0	2							<b>H</b> 1
11-	$\square$	U	3			Red-gr	een-brown, silty, CLAY, some			["
12-	lΧI		50/2		1	gravel,	damp (fill)			<b>-1</b> 2
	/	5								<b>–</b> 13
13-	$\square$	3	6			As abov	re, gray-red-brown			
14-	IXI		6							14
	/	5	5 3							-15
15-	$\square$	3	8			Brown-	gray-red, gravelly, CLAY, damp			
16-	ĮΧĮ		15			(fill)		00		<del> 1</del> 6
	/	_								1.7
17-	(	5				Black, C	CLAY with brown fibrous material,	× X		H7
18-	V						icky, wet (fill)	X X		<b>H</b> 8
"	/							××	•	
19-	$(\cdot)$					Black p	ellets, gray SILT, wet (fill)	×-×		<b>⊣</b> 9
	ıVl		6	1	1	2.00k p		5-5		ı

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

, PROJ	ECT	NAME	Bay	yer Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING SMOOT-TBO	<del>)4</del>
1				SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV.633.707	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
						Spoon			START DATE 6/24	
					Stem Auger/Split	эрооп	NORTHING 690.45043		1	
LOG	ED	BY	. Torr	es			EASTING -3298.01613	<del></del>	FINISH DATE 6/24	./9/
	ш		1	5						
DEPTH	S.S. SAMPL	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	X				SM001TB04-0001	Brown, s damp (C	oil with sand and gravel, dry to L/ML)	6/6/		
1-						Drilled in	terval			ΓΙ
2-	1									-2
3-										-3
	NΛ		4			Red-bro	wn, CLAY, moist (CL)			
4-	W		4		SM001TB04-0305					4
	Ν		3		SM0011B04 0300				•	
	V	10	4							-5
5-	$\Box$		5			Red-bro	wn, silty, CLAY, moist (CL)			٦
	\/		3		<u> </u>					
6-	١X١				1					<del> </del> *6
	/ \		2							
7-	$\left( \cdot \right)$	90	5			As above	· e			7
l	$\mathbb{N}/\mathbb{I}$		3							
8			3							-8
	$ \Lambda $		1							
_ه ا	ackslash	95	3	1		4 a aba			•	L <sub>9</sub>
	N/						e, grading to gray-brown to ray, black stringers			
	V				CHOOTED 4 CO.	<b>5 9</b>	-·			10
10-				}	SM001TB04-0911					10
Ì	// \I		1							
11-						As above	e, green-gray-brown			-11
1	\ /		2							
12-			3							-12
	/\		3							
13-	igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace igspace	90	3		ļ	As abov	<b>a</b>			<b>H</b> 3
~	N /		1		1	AS dDUV	<del>c</del>			
	V		1		,					-14
14-	ا ۱ ا		2							14
j	// \ <u> </u>	90	2			Bottom (	of boring 15 ft			
15- N	OTES			<del></del>						<del>1</del> 5

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   wh-weight of hammer
   wr-weight of rods

- 5. ft-bgs-feet below ground surface
- 6. ft-msi-feet above mean sea level

**BORING LOG** 

PROJ	ECT	NAME	Bay	er Cor	p., New Martinsville	e, WV	WATER LEVELS		BORING SMOOT-TE	
				SWMU			DRILLING (ft-bgs) 17, 29		G.S. ELEV. <u>653.601</u>	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEVN/	Α
					Stem Auger/Split	Spoon	BB4 20074		START DATE 6/25	/97
			. Torre				NORTHING 884.29974 EASTING -3392.48955		FINISH DATE 6/2	5/97
							EASTING		<u>.l</u> _	Т
ОЕРТН	S.S. SAMPLE	(percent)	BLOW COUNT (per 8 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	· · · · · · · · · · · · · · · · · · ·	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
39-	A	0	5 5 8		_	Dark bro	own, gravelly SAND, wet (fill)	0. 0.		<b>-3</b> 9
40-		10	7 4			Brown, s	sandy, silty, CLAY, damp (fill)	0: 0:		-40
41- 42-	$\bigvee$	IU	3 5 4							-41  -42
43-	A	40	8 13 4			Brown-c	gray, sandy, GRAVEL, some	- (////   X		-43
14-	X		32 50/2				conate material, wet (fill)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		-4
45- 46-		5	18 5		-	Polycart	ponate and glass strands, wet (fill)	× × × × × × × × × × × × × × × × × × ×		-4: -4:
47-		5	5			Grav-or	een-brown, sandy, silty, CLAY,	×××		-47
18-			6 7 8			damp (f				-4
19-	$\left\langle \cdot \right\rangle$	90	10 7		_	metal (f		/ <del>*////</del>		4
50- 51-	$\bigwedge$	0	8 10 11			No reco	vei y			-50 -51
52-	$\bigvee$		4 6 7				own, sandy, silty, CLAY, with when stringers, damp (CL)			-52
53-	$\langle \cdot \rangle$	80	9 3			Red-bro	own, sandy, CLAY, damp (CL)			-53
54-			4 6 8		SM001TB03-5355	Bottom	of boring 55 ft			5.
55- 56-										-5! -5!
-										

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 wh-weight of hammer

4. wr-weight of rods

6. ft-msi-feet above mean sea level

Page 3 of 3

PRO	JECT	T NIAME	- Bay	er Cor	p., New Martinsvill	e, WV	WATER LEVELS	•	BORING SMOO1-TBO	)3
				SWMU		•	DRILLING (ft-bgs) 17, 29		G.S. ELEV.653.601	
					nia Drilling Co.	<del></del>	WELL LEVEL (ft-msl) N/A _		CASING ELEV. N/A	<u> </u>
					Stem Auger/Split	Spoon			START DATE 6/25/	
		BY_F					NORTHING 884.29974		FINISH DATE 6/25	
100	GED T	نـــــــــــــــــــــــــــــــــــــ					EASTING3392.48955		FINISH DATE OF ES	, , , ,
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
20-		15	25 17 11 15				ray, IRON OXIDE, some concrete, lakes, white flakes, saturated,	X=X X_X_X X_X_X X_X_X X_X_X		-20 -21
22-			6 17			and rock	f concrete, copper wire, gravel s, blue-green silty material,	××××		-22
23-	$\bigwedge$	40	19 17			brown-g to damp	ray, densely-packed material, wet (fill)	× × × × × × ×		-23
24-	$\bigvee$		8			material,	f green-gray material, brown-tan yellow material, dark brown-red erial, pieces of plastic, damp (fill)	×, ×, × × × × × ×		-24
25-	$\left\langle \cdot \right\rangle$		12 16 12				wn, IRON OXIDE with red-orange	×××× ××××		-25
√ } 26-	X		12				pam, plastic sheeting, wet (fill)	X X		-26
27-	<u>/                                    </u>	5	1 2			No recov	rery	/ * X		-27
28-	$\left  \right $	<u> </u>	2 6	•						-28
29-	$\frac{(}{)}$	0	5 8				wn, SILT and SAND, some rocks,	V-0		-29
30-	X		7 3		SM001TB03-2931	damp to	wet (fill)			-30
31-			2	>20	:		wn, sandy, SILT, some red-brown e gravel, piece of fabric, wet (fill)			-31
32-		_	5			ciay, iitli	e graver, piece or rabile, wet (ill)			-32
33-	$\frac{1}{2}$	5	1				ray, sandy, silty, CLAY, red flakes, in fibers, white granules,	XX X		-33
34-		40	6 11				acketed wire, wet (fill)	xx		-34
35-		10	13				f rocks, yellow, red, and brown, Y, wood, fibrous material, wet (fill)			<del>-3</del> 5
36-	$ \!\! \!\! $	10	5 8 25		SM001TB03-3537					<del>-</del> 36
37-	X		3			No recov	ery			37
38- N	IOTES	S:		_ 11				<i></i>		-1-38

- Depths and Elevations in feet unless otherwise noted
   USCS Classification based on visual-manual procedures
   wh-weight of hammer
   wr-weight of rods

- 5. ft-bgs-feet below ground surface6. ft-msl-feet above mean sea level

				. 5	- N NA11-4-10	- 1017	WATER LEVELS		BORING SMOOI-T	В03
					p., New Martinsville	e, wv	DRILLING (ft-bgs) 17, 29		l l	
				SWMU			WELL LEVEL (ft-msl) N/A		G.S. ELEV.653.60	
					nia Drilling Co.		WELL ELVEL (II IIISI)		CASING ELEV	
					Stem Auger/Split	Spoon	NORTHING_884.29974		START DATE 6/2	
LOGG	ED	BY_F	. Torr	es			EASTING -3392.48955		FINISH DATE 6/	25/97
	ш								<u> </u>	
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ПЕРТН
1_	X				SM001TB03-0001	Brown, s dry (fill)	andy, clayey SILT, some gravel,			4
2-						Drilled in	iterval			-2
3-		,				Davi ore	ay, IRON OXIDE, fine to coarse	N S N		-3
4-	$\bigvee$		13 10 6		SM001TB03-0305		nd size, some clay, dry (fill)			-4
5-	$\langle \cdot \rangle$	25	3			Dark gra	ay, IRON OXIDE with some fine			5
6-	X		2			metal st	rands and rocks (fill)			-6
7-	$\langle \cdot \rangle$	!	1			As abov	e, fine to coarse grain grading to grain			-7
8-	X		2							-8
9-	(		1			As abov	e, v. fine grain			<del>  •</del>
10-	$\bigwedge$	70	5 7							H
11-	$\bigvee$	,,,	7			size, so	plack material, v. fine sand/silt me red flake material, yellow	X X X X X		- - - - - - - - - - - - - - - - - - -
12- 13-	$\triangle$	80	18 27				, some light brown clay, moist (fill)  of yellow material, red material,	X X X X X X X X X X X X X X X X X X X		-4:
14-	$\bigvee$		6 7			flakes, t	olack, fine grain material, tan e material, metal screen, moist (fill)	X X X X		-4.
15-	$\langle \cdot \rangle$	20	27 16 3			Light br	own, SAND, dark brown, fine grain	× × ×		-1
16-	X		2 2		SM001TB03-1517		, foam, moist to damp (fill)	* * * *		-
17-	$\left\langle \cdot \right\rangle$	50	1 1				own to black, IRON OXIDE, dark	X X X=X		-1
18-	X	,	9				o red-brown, v. fine sand/silt size , foam, wet (fill)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		-
19_	<u> </u>	70	10					X X		

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

\	PRO	JECT	ГИАМЕ	- Ba	yer Coı	p., New Martinsvi	lie, WV	WATER LEVELS		BORING SMOOI-TBO	)2
					SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV.652.242	
						nia Drilling Co.		WELL LEVEL (ft-msi)_N/A	<u>.</u>	CASING ELEV. N/A	
						Stem Auger/Spli	Spoon			START DATE 10/25	/96
			BY_E					NORTHING 957.32712		FINISH DATE 10/28	
	LUGI	סבט	DI		-			EASTING3536.38786		FINISH DATE 10720	<del>,, 00</del>
,	DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	43-	X	100	10 11 8	0			anular material, yellow fibers on?), wood, loose, moist, (fill)			-43
i	44-	$\bigg  \bigg $		14 15			Gray-bla \ insulatior	ack clay and rock fragments, few in fibers, occ. pieces of fencing soft, nonplastic, saturated, (fill)			-44
	45-		75	32 5	0			ray and rust clay, some rock s, little plastic debris, stiff, damp,			<del>-4</del> 5
	46-	$\bigwedge$	100	12 14	0	SM001TB02-4547	plasticity	wn clay, stiff, med. to high /, damp to moist, pocket of black d with organic matter, (CL)			<del>-4</del> 6
ì	, 47– 		100	7			loose to	own, v. fine to fine sand and silt, med. dense, wet, (SM)			-47
	48-	$\backslash\!\!\!/$	100	10	0	6M001TB02A-4749					48
	49-	$\bigvee$		9	:			rown grading to red-brown, v. ine sand, loose to med. dense, d (SP)		·	49
	50-	$/\!\!\!/$	100	11 15	0						50
	51-						Hydropu	nch groundwater sample			51
	52-					Quantitation					<del>-</del> 52
	53-					SM001TB02A-5155					-53
	54-		!				Bottom c	of boring 55 ft			54
	55-						-				<del>-</del> 55
٠	56 <sup>–</sup>		<u> </u>	L	<u>l</u>	<u>l                                      </u>	<u> </u>	<del></del>		<del> </del>	⊥56
	NU	OTES 1. De	o. pths ar	nd Elev	ations i	n feet unless other	wise noted	5. ft-bgs-feet below ground su	ırface		

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 wh-weight of hammer
 wr-weight of rods

<sup>5.</sup> ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRN.	IEC:	ΓΝΔΜΕ	- Bay	yer Cor	p., New Martinsvi	lle, WV	WATER LEVELS		BORING SMOOI-TB	02_ <sub>7</sub>
				SWMU			DRILLING (ft-bgs) N/A		—G.S. ELEV.652.242	
					nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/	
					Stem Auger/Split	Spoon			START DATE 10/25	
		BY_E			<u> </u>	<del>' </del>	NORTHING 957.32712		FINISH DATE 10/2	
LUG	טבט	DI					EASTING3536.38786		FINISH DATE 107E	1
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
						Hydropu	nch perched water sample			
29-										-29
					1					
30-										-30
31-					,	1	•		·	-31
30					CHOOLEDOO 3433					<del>-</del> 32
32-		:			SM001TB02-3133					F32
33-					,					33 /
	N/	1	12			Rock fra saturate	gments, clay/silt, debris, loose,			
34-	Į V		7		1	outurate.	a, 1111/			-34
			9		,					
35-	<u> </u>	<25	14	0				7 + +		-35
	$\mathbb{N}/$		7			Trash an	d debris, loose, saturated, (fill)	+ +		i
36-	Į V		9			Drawn al		+ +		-36
	$ / \rangle$		8			wet, and	ay, soft, med. plasticity, moist to layered white synthetic woven			
37-		75	9	. 0		material,				-37
	$\mathbb{N}/$		11				en-black-brown clay and rock s, soft, med. to low plasticity,			
38-	X		10				wet, (fill)			-38
	$ / \setminus$	75	5			As above wire, (fill	e with plastic jacketed electrical )			
39-		/5	13	0	.		ack clay and sandstone rock			-39
	$  \rangle /$		12		.		s, little fine sand, loose,			
40-	X		9			saturate	w <sub>i</sub> (11117			40
	$V \setminus$	<25	10	0						
41-	1		9				own clay and rock fragments, little			41
	X		10			wire deb saturate	ris, v. soft, med. plasticity, wet to d. (fill)			
42- N	OTE:	S:			1					<del>4</del> 2(

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

∵PR∩.	IEC.	- L NIVME	- Bay	yer Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING SMOOI-TBO	02
				SWMU		···	DRILLING (ft-bgs) N/A		—G.S. ELEV.652.242	
DOI	1 761	C ETDI	Per	nsviva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N/A	١
					Stem Auger/Split	Spoon			START DATE 10/25	
					<u> </u>	<u> </u>	NORTHING 957.32712	<del></del>		
LOG	GEU	BYE	J. Oqui				EASTING -3536.38786		FINISH DATE 10/28	7,90
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
(=	$\bigvee$		1				ading to orange-red granular loose/soft, moist to wet, (fill)			<b>⊢</b> 45
15-	$ $	50	15			Green-gi moist, (fi	ray clay, soft, med. plasticity,   )			2
16-		50	24 6	0			above, v. soft grading to med. oist to wet, pieces of sheet metal,			-16
17-	X		13 16		Mary waters one		dstone rock fragments, (fill)			<del>-1</del> 7
18-	$\left\langle \cdot \right\rangle$	50	19	0	-	Brown cla	ay and sandstone rock fragments			-48
19-	V		10 8				ff, low plasticity, damp to moist,			-19
20-	$\left  \left\langle \cdot \right\rangle \right $	75	7 8	0		•				-20
20-	$\Big \Big $		15							20
21-	$ \lambda $		13 15		,	•	de Maria de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caración de Caraci			-21
22-	$\left\langle \cdot \right\rangle$	50	15 13	0	<u> </u>		y, sand, gravel, rock fragments,			-22
23-			17 19			soft to m	ed. stiff, nonplastic, moist, (fill)	0 0		-23
24-	/	<25	24	0		_	<del></del>	0.0		-24
٥٥	$\bigvee$		9 12		SM001TB02-2426		ack clay, some fine gravel, rock s, debris (wood, paper), moist,			-25
25-		۸۳	13		3MUU11 BU2-2420					20
26-	()	25	15 13	0			d debris (wood, paper, plastic), gments, loose, saturated, (fill)	+ + + + + + + + + + + + + + + + + + + +		-26
27-	X		14 15					+ + + +		-27
	V	25	17	0				+ +	•	
28− ; N	OTES				. 1.	<del> </del>		<del></del>		-1-28

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

DDA	IEC:	TNAME	- Ba	ver Coi	rp., New Martinsvill	le. WV	WATER LEVELS		BORING SMOOT-TB	02
				SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV.652.242	
					nia Drilling Co.	-	WELL LEVEL (ft-msl) N/A	<del></del>	CASING ELEV. N/	
ORIL	LIN	G MET	HOD_	Hollow	Stem Auger/Split	Spoon	NORTHING 957.32712		START DATE 10/2	5/96
_0G(	GED	BY_E	3. Squi	re			EASTING -3536.38786	<del></del>	FINISH DATE 10/2	8/96
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			3			Brown cli material,	ay soil, some sand, organic damp	/		
1-	X		5 11		SM001TB02-0002	Black po damp, (f	wdery material, soft to med. stiff, iil)			1
2-		50	17 5	9.3		Red-bro	wn-black iron oxide, fine to			-2
3-	V		5			coarse g	rain sand size, loose to med. amp, (fill)			-3
-	/	50	6 6	0						
4-		50	2		SM001TB02-0305		with maroon pellets, little clay, moist, (fill)		,	4
5-	I V		2			damp to	moist, (m)			5
6-	$/ \setminus$	100	2	2.3						-6
U	$\mathbb{N}/$		1							
7-	X		2		,					-7
8-		75	1	5.8						В
	$\bigvee$		2 3		]		•		•	
9-			5				ay, fine sand, some fine gravel, fragments (fill)	0 0		19
10-	$\left\langle \cdot \right\rangle$	50	6	0			anular material and light brown			10
11-	V		3			clay, med	d. stiff, sl. plasticity, damp, (fill)			<b> </b>
	$/ \setminus$	<25	3	0						
12-	$\langle \cdot \rangle$		1		SM001TB02-1213		anular material, little red-orange e substance, loose to med. dense,	# N		H2
13-	X		1				M hit in black granular material,		)	-13
	$/\setminus$	75	1	12.8						

- NOTES:

  1. Depths and Elevations in feet unless otherwise noted

  2. USCS Classification based on visual-manual procedures

  3. wh-weight of hammer

  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

√PR	OJEC	T NAMI	E Bay	er Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING SMOOI-TBO	1
				SWMU			DRILLING (ft-bgs) N/A		G.S. ELEV. <u>636.209</u>	
					nia Drilling Co.		WELL LEVEL (ft-msl) N/A		CASING ELEV. N/A	
DR	ILLIN	IG MET	HOD_	Hollow	Stem Auger/Split	Spoon	772 52120		START DATE 6/23/	97
LO	GGED	вү	P. Torr	es			NORTHING_772.53130 EASTING3509.49878		FINISH DATE 6/23	
-			<u> </u>	T	,		EASTING SOOTION			
DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
Γ		1	2			No desc	cription available			
16	<u>, [/</u>	0	3							H6
"	1	Λ	3	1						
1	,-  Y		3	[	SM001TB01-1618					<b>H</b> 7
	/\	$\backslash$	5							
18	₃-{	20	7							-18
	$  \rangle$	/	3							
19	∍ <del>/</del> X		4							-19
	/\	_ ا	4	FO						
20	+	5	6	50			1			-20
·	$ \cdot $	/	28							
[] <sup>2</sup>	┧╟		5							-21
	$\mathcal{N}$	\ 5	1							-22
2:	<u> </u>	7	2							
2	$\bigcup \bigvee$	<u>'</u>	4							-23
2	$\Lambda \Gamma$	$\langle  $	4				-			
2	<u>,                                     </u>	<u></u> 5	5							-24
'	`\	Λ	4							
25	54 Y		2							-25
	/\	$\backslash$	2							
20	₃ــ	0	3		]					-26
	$\setminus$	/	3							
2	7-  X		3				·			-27
	- /\	$\setminus$	3							
28	ⅎᡛ	<del>-</del> }	3							-28
	$  \rangle$	/	4							
2	∍ <del>/</del> X		3		SM001TB01-2830					-29
	/\	33	3 4			Pottom	of boring 30 ft			
30	NOTE		1 4	<u> </u>	<u> </u>	BOLLOIN	or pointy so it	<del>1</del>	<u> </u>	130

- NUTES:

  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PROJE	CT NAM	E Ba	yer Cor	p., New Martinsvil	le, WV	- WATER LEVELS		BORING SHOOT	. (
BORIN	G LOCA	TION_	SWMU	001		DRILLING (ft-bgs) N/A		— G.S. ELEV. <u>636.20</u>	
DRILL	NG FIR	M Pei	nnsylva	nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N	/A
DRILL:	ING MET	HOD_	Hollow	Stem Auger/Split	Spoon	770 53130		START DATE 6/2	3/97
	D BY_					NORTHING 772.53130 EASTING -3509.49878		FINISH DATE 6/2	
				<u> </u>	·	EASTING			$\neg$
DEPTH	S.S. SAMPLE RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1	$\bigwedge$	5 9		SM001TB01-0002	No desc	cription available			
2		5 3							-2
3-		3							-3
4	5	5		SM001TB01-0305					-4
5-									-5
6-	5	2		·					6
7-	$\langle  $	4 3							-7
8 /	5	5 1							-8
9- \	$\langle  $	4							-9
10-	5	5 5	50				1		10
11-	$\langle  $	5 4			,				-11
12-		3							-12
13-	$\langle \cdot  $	3 2							-13
14-		3			•				-14
15/	<u> </u>	3	1	<u></u>	·				<u></u>

<sup>1.</sup> Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods

<sup>5.</sup> ft-bgs-feet below ground surface

<sup>6.</sup> ft-msl-feet above mean sea level

PRO.	IEC1	ΓΝΔΜΡ	- Bay	yer Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING BG001-TE	305
				Backg			DRILLING (ft-bgs) 16		G.S. ELEV	
					nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEV. N	
					Stem Auger/Split	Spoon			START DATE 11/20	
			B. Brov		<u> </u>	<u> F :</u>	NORTHING	<del></del>	· ·	
LUG			J. DI 01				EASTING	<del></del> -	FINISH DATE 11/2	.0/0/
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	$\bigvee$		6 4		BG001TB05-0001	Dark bro	wn, CLAY, sticky, (fill)			4
2-		70	5 9 8 20	0		Red-bro (fill)	wn, SAND with light gray gravel	0 0		-2
3-	$ \Lambda $	25	16 10					0 0		-3
4-		25	2	0	BG001TB05-0305	No recov	rery			4
5-	X		6 8							-5
6-			12 3				ity CLAY with organic matter,			-6
7-	X		4 6			medium p	lasticity, damp, (CL)			-7
8-		60	7 8	0		As above	•			-8
9-	X		10 13							9
10-	$\left\langle \cdot \right\rangle$	40	12 6	0		Brown, s	ilty CLAY with gray, subangular			-10
11-	IV.		8			gravel, m	redium plasticity, damp (CL)			-11
12-	$\left\langle \cdot \right\rangle$	90	12	0			/, damp, (CL)			<del>-1</del> 2
`13 <i>-</i>	V		9 12			As above	2			-13
14-	$\langle \cdot \rangle$	80	13 14	0		As above	9			<b>⊣</b> 4
15	V		18 13		BG001TB05-1416		wn, silty SAND, moist (SM)			<b>⊣</b> 5
16-	$\square$	80	14 10	0						<b>⊣</b> 6
17-	$\bigvee$		9			Red-bro loose, we	wn, medium to fine SAND, few silt, et (SP)			<b>-47</b>
	$/ \setminus$	60	3 5	0		Bottom o	of boring 18 ft			
18-	OTES									

<sup>1.</sup> Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods

PRO	JECT	T NAMI	Ba:	yer Cor	p., New Martinsvill	e, WV	WATER LEVELS		BORING BG001-TB	<u>04</u>
	OJECT NAME Bayer Corp., New Martinsville, North Background  RILLING FIRM Pennsylvania Drilling Co.  RILLING METHOD Hollow Stem Auger/Split Sp						DRILLING (ft-bgs) 10.8		G.S. ELEV	
							WELL LEVEL (ft-msi) N/A	<del></del>	CASING ELEV. N/	Α
						Spoon			START DATE 11/20	/97
			3. Brov				NORTHING		FINISH DATE 11/20	
LOU							EASTING		I INISH DATE	$\dot{}$
нтаэо	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
	$\mathbb{N}$		4		DC001TD04_0001	Dark bro moist (C	wn, silty CLAY with organic matter,			
	W		5		B6001TB04-0001	1110131 (0	L)			1 1
1-	ľ	,	7							H
	$/ \setminus$	45	8	0						1 1
2-		75	5			Dark bro	wn, silty CLAY with subrounded,			-2
	$\mathbb{N}$					sandstor	ne gravel (CL)			
3-	X		7							-3
			13							
4-	<u> </u>	55	14	0	BG001TB04-0305	As about	e, yellow-brown			4
	N /	•	19			AS above	e, yellow-blown			
	V		15							! .
5-	ľ	ŧ.	14							ا ا
	V									
6-	<b>(</b> )	25	7			Dark has	un eilte CLAV dark grav mattige			-6
	$\mathbb{N}/$		10				wn, silty CLAY, dark gray mottles, plasticity (CL)			
7-	V		7							<b>-</b> 7
<b>'</b>	$ \Lambda $		8		.					
	$V \setminus$	35	8	0						
8-		33	_		<u> </u>	Red-bro	wn to yellow-brown, silty SAND	<u> </u>		8
	$\mathbb{N}I$		10			with sand (SM)	dstone fragments, moist to wet	<u> </u>		
9-	<b> </b>		7			(am)		<u> </u>		9
	М		9					-6-6		
۱.,	V	50	8	0			ſ	-6- 6-6		40
10-			10				prown to orange-brown, v. fine ILT with sandstone fragments,	<u> </u>		H0
	$  \rangle /$						ading to wet (ML)	- <del></del>		
11-	Į X		9		BG001TB04-1012			<u> </u>	,	<b>-</b> 11
			9			<b>.</b>		6 <u>- 6</u>		
12-	V	45	8	0	<u> </u>	Hottom o	of boring 12 ft	0:-0: -0-		
12-										14,

- NOTES:
  1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
- 3. wh-weight of hammer 4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

PRO	JECT	LNVWE	Bay	er Cor	p., New Martinsvill	le, WV	WATER LEVELS		BORING BG001-TB0	3
			ION_				DRILLING (ft-bgs) N/A		G.S. ELEV	
DRII	LTN	G FIRM	1 Peni	nsylvar	nia Drilling Co.		WELL LEVEL (ft-msl) N/A	<del></del>	CASING ELEV. N/A	
וזפח	J ŤNI	G MFT	HOD I	Hollow	Stem Auger/Split	Spoon			START DATE 11/21/9	
			B. Brow		<del> </del>		NORTHING	<del></del>	FINISH DATE 11/21/	
							EASTING	<del></del>	THISTI DATE	_
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
			3		BG001TB03-0001	Brown, si	ilty CLAY with organic matter (CL)			
1-			3							H
			6	_						
2-		50	9	0			wn, silty clay, light gray mottles, ne fragments (CL)			-2
4	$\left  \right $		15		·	Gray, CL	AY, stiff, dry (CL)			
3-	<b>                                     </b>		16							-3
	$\  \ $		21							
4-		55	39	0	BG001TB03-0305	'As above	<b>e</b> .			4
	1		20							
5.	$\iint$		26							-5
	$\left\  \right\ $	ı: Ir	38							
 √ 6.		55	50/3	0		Refusal;	bottom of boring 6 ft			_6
	OTE	S:								

- 1. Depths and Elevations in feet unless otherwise noted
  2. USCS Classification based on visual-manual procedures
  3. wh-weight of hammer
  4. wr-weight of rods

- 5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

BORING				p., New Martinsville					
	LUCAI	.TON	Backgr	ound		DRILLING (ft-bgs) 15.9		_G.S. ELEV	
DRILLIN				nia Drilling Co.		WELL LEVEL (ft-msi) N/A		CASING ELEVN/	Α
				Stem Auger/Split	Spoon			START DATE 11/20	)/97
LOGGED						NORTHING		FINISH DATE 11/2	
LOGGED	,					EASTING	1	TINISH DATE	
DEPTH S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1-		5 5		BG001TB02-0001		prown, silty CLAY with organic sticky, moist (CL)			4
$      \rangle$	ŀ	5							
2	45	7 4	0			o orange-brown, silty CLAY, gray stiff, moist (CL)			-2
3-		5 6							<b>–</b> 3
4	55	9	0	BG001TB02-0305	As above				-4
5-		15 14				orange-brown, fine to medium SAND dstone fragments (SW)			-5
6	75	15 9			As abov	e, yellow-brown to red-brown			6 (
7-		11 16							-7
8 / \	100	16	0		As abov	e			-8
9-\ \		17							9
10-	45	17	0		As abov	e, some mica flakes			-10
11-		14							-11
12-	100	25 9	0		As abov	e			-12
13-		11 13							<del>-1</del> 3
14-	50	14	0		As abov	e			-14
15-		13		BG001TB02-1416					<b>-</b> 15
16	75	13	0		Bottom	of boring 16 ft			16/~

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods

<sup>5.</sup> ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

**BORING LOG** 

L PRO	IFC:	Τ ΝΔΜΕ	- Bay	er Cor	p., New Martinsvil	le, WV	WATER LEVELS		BORING BG001-TB0	1
				Backg			DRILLING (ft-bgs) 8		G.S. ELEV	
					nia Drilling Co.		WELL LEVEL (ft-msi) N/A _	<u> </u>	CASING ELEV. N/A	
					Stem Auger/Split	Spoon	<del></del>		START DATE 11/21/9	
			B. Brow				NORTHING	<del></del>	FINISH DATE 11/21/	
1000	JED	D ,	1				EASTING	<del></del> -	FINISH DATE	
ОЕРТН	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID		MATERIAL DESCRIPTION	SYMBOL	REMARKS	ОЕРТН
1-	$\bigvee$		2		BG001TB01-0001		wn, silty CLAY with organic matter, itles, moist (CL)			Ŧ
	$/\!\!/$	55	4 6	0						
2-	$\backslash /$		6			As above	e, stiff, damp			-2
3-	X		8 12							-3
4-		55	12	0	BG001TB01-0305		wn, silty CLAY with occ. ne fragments, gray mottles, stiff,			-4
5-	$\bigvee$		12				icity (CL)			-5
	$/\!\!/$	75	15 16	0		·				
6-	$\setminus /$		9			As above				<del>-</del> 6
7-	X		9	-	BG001TB01-0608		rown, silty SAND with sandstone as, damp grading to to wet (SM)		·	-7
8-	$\langle \ \rangle$	75	10	0		As above	e, wet			В
	$\bigvee$		7							
9-			6							9
10	OTES	75	8	0	<u> </u>	Bottom o	of boring 10 ft			

5. ft-bgs-feet below ground surface 6. ft-msl-feet above mean sea level

Page 1 of 1

Depths and Elevations in feet unless otherwise noted
 USCS Classification based on visual-manual procedures
 wh-weight of hammer
 wr-weight of rods

# APPENDIX D BORING LOGS